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UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS WATER QUALITY MANAGEMENT PLANNING STUDY

VOLUME II. APPENDIX

UTAH DEPARTMENT OF SOCIAL SERVICES

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APPENDIX

TO

UTAH LAKE--JORDAN RIVER HYDROLOGIC BASINS WATER QUALITY MANAGEMENT PLANNING STUDY

JUNE, 1975

TEMPLETON, LINKE AND ALSUP
SALT LAKE CITY, UTAH

ENGINEERING SCIENCE, INC.
BERKELEY, CALIFORNIA

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FIGURE 1A

UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

ACTIVE WATER QUALITY SAMPLING STATIONS

ON STORET SYSTEM

LEGEND

Wastewater Treatment Plants

1. North Davis
2. Central Davis
3. South Davis North
4. South Davis South
5. Salt Lake City
6. Magna
7. South Salt Lake
8. Granger-Hunter
9. Salt Lake Suburban #1
10. Cottonwood
11. Murray
12. Tri-Community
13. Sandy
14. Copperton
15. Lark
16. State Prison
17. Camp Williams
18. Lehi
19. American Fork
20. Pleasant Grove
21. Orem
22. Heber
23. Midway
24. Springdale
25. Provo
26. Springville
27. Spanish Fork
28. Salem
29. Payson
30. Nephi

FIGURE 1B

UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

WASTEWATER TREATMENT PLANT SAMPLING STATIONS

ON STORET SYSTEM

LEGEND

Storm Drainage Sampling Points

1. Inlet of Howard Slough
2. Fife Ditch south of Sunset
3. Hill Air Force Base storm sewer pond on Hill Field Road
4. Layton storm sewer on west Gentile Street
5. Kays Creek at Angel Street
6. Clearfield and Freeport Center storm sewer
7. Hill Air Force Base storm sewer effluent at Kays Creek
8. Layton storm sewer effluent on Kays Creek
9. South Fork Holmes Creek west of D. & R. G. tracks
10. Farmington Creek at Main St., west of I-15
11. Stone Creek east of South Davis North Wastewater Treatment Plant
12. Holbrook Creek east of South Davis North Wastewater Treatment Plant
13. Jordan River at Farmington Bay
14. Drain ditch from Sky Haven Airport area below Woods Cross
15. Mill Creek below Phillips Petroleum Co.
16. Mill Creek below 5th South I-15 interchange
17. Jordan River at Davis County line
18. Oil ditch above Chevron Oil Co. at Davis County line
19. City Drain at 6th North and 18th West
20. Goggin Drain at North Temple
21. Outlet City Creek conduit
22. City Drain at 2nd South
23. Sixth South storm sewer
24. Red Butte at Sunnyside Ave.
25. Eighth South storm sewer
26. Red Butte at 13th East
27. Thirteenth South storm sewer
28. Discharge from County Drain in Redwood Village
29. County Drain east of Chesterfield
30. State Road storm drain north of 21st South
31. City Drain at 21st South and 6th West
32. Parleys Creek at conduit inlet in Sugarhouse
33. Holiday storm sewer outlet

Storm Drainage Sampling Points (cont.)

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35. Storm Drain at 600 West and 100 North in Heber
36. Storm Drain at 100 South and Center Street in Midway
37. Snake Creek south of road to cemetary
38. Storm Drain at 500 West and 100 North in Heber
39. Storm Drain at 600 West and 600 South in Heber
40. Unnamed drain at D. & R. G. tracks, two miles south of Midway
41. Waste ditch at State Road 197, west of Lehi
42. Dry Creek at State Road 73, west of Lehi
43. American Fork Creek at 400 South and 100 East in American Fork
44. Canal at 500 West and 600 South in Provo
45. Mill Race Canal at University Ave. in Provo
46. Unnamed drain on east side of Provo golf course
47. Lower Union Canal at 1150 East and 900 South in Provo
48. Upper Union Canal at 1300 East and 900 South in Provo
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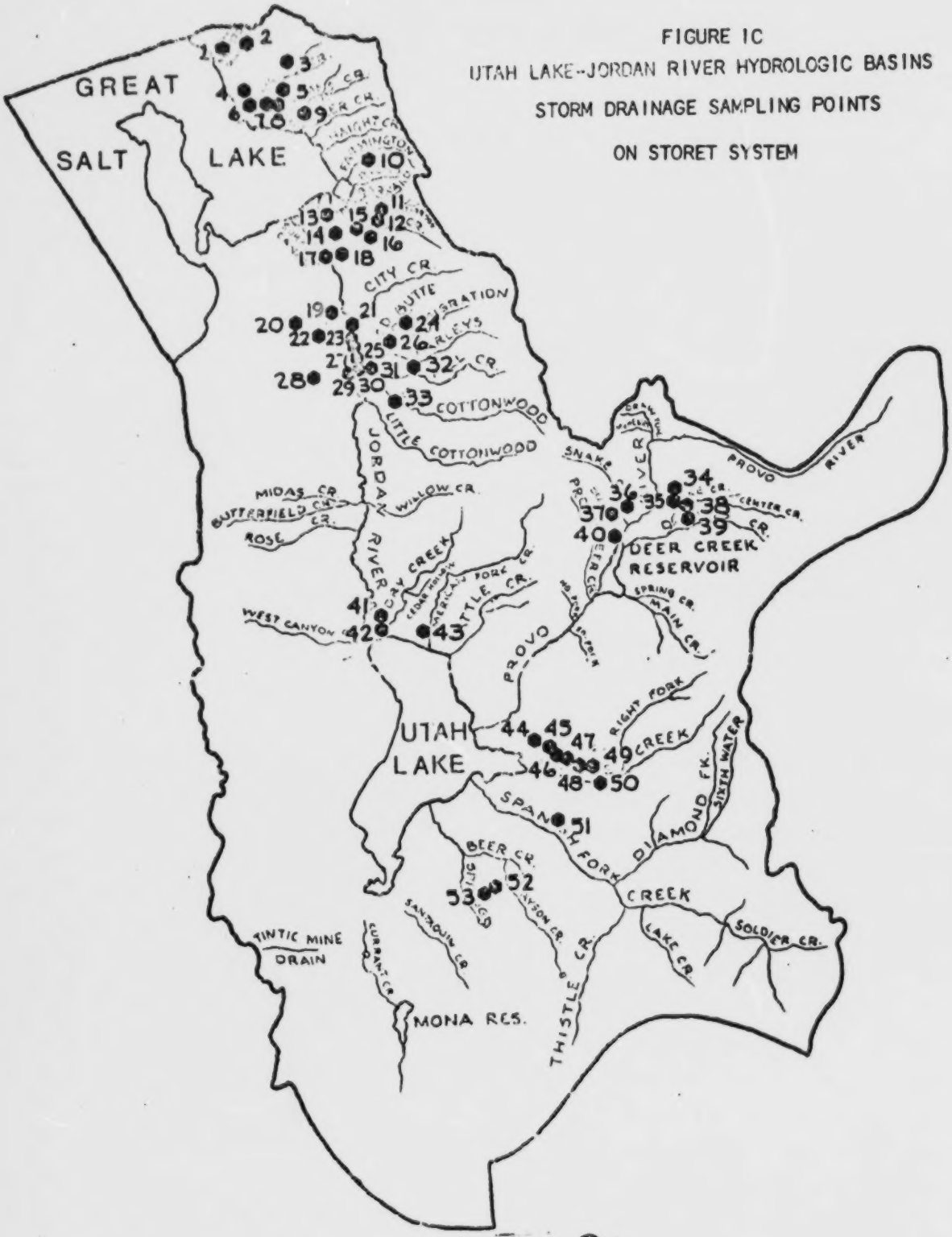
51. Drain at 900 North and 300 West in Spanish Fork
52. Storm drain at 400 North and 450 East in Payson
53. Storm drain at 600 West, north of 100 North in Payson

FIGURE 1C

UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

STORM DRAINAGE SAMPLING POINTS

ON STORET SYSTEM



LEGEND

INDUSTRIES DISCHARGING DIRECTLY TO SURFACE WATERS

1. Crown Refining Co.
2. Phillips Petroleum Co. (3 discharges)
3. Caribou Four Corners
4. North Salt Lake Livestock
5. Producers Livestock
6. Husky Oil Co.
7. Chevron Oil Co.
8. Denver and Rio Grande Western Railroad
9. American Oil Co.
10. Union Pacific Railroad
11. Utah Power and Light - Gadsby Plant (6 discharges)
12. Morton Salt
13. Stauffer Chemical Co. (2 discharges)
14. Kennecott Copper Corporation
15. Concrete Products
16. IML Freight Lines
17. Salt Lake County Water Supply - Parleys
18. Scott Avenue Fish Hatchery
19. Metals Processing
20. Key Industries
21. Salt Lake County Water Supply - Little Cottonwood
22. Varian, Associates - Eimac Division
23. Salt Lake County Water Supply - Big Cottonwood
24. Hecla Mining Co.
25. Clearview Trout Farm
26. Midway Fish Hatchery
27. Utah Power and Light - Hale Plant (3 discharges)
28. Reilly Tar and Chemical Co.
29. Pacific State Pipe Co.
30. U. S. Steel - Geneva Works
31. Springville Fish Hatchery
32. USDI - Springville
33. Tintic Mines

FIGURE 1D

UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

INDUSTRIES DISCHARGE SAMPLING STATIONS

ON STORET SYSTEM

Table 7A

UTAH LAKE-JORDAN RIVER HYDROLOGIC BASIN

TOTAL WATER REQUIREMENTS 1972

(acre feet per year)

Planning Area	Municipal	Industry	Agricultural	Recreational	Total
Davis County					
A	15,244	-	95,900	5,490	116,634
B	2,475	-	20,300	513	23,288
C	11,761	7,094	11,600	5,130	35,585
Total Davis County	29,480	7,094	127,800	11,133	175,507
Salt Lake County					
D	2,598	124,675	24,800	540	152,415
E	45,466	68,900	2,000	18,900	135,266
F	38,295	2,014	22,800	16,848	79,957
G	19,452	213	43,600	8,100	71,365
H	11,977	-	114,000	5,184	131,561
Total Salt Lake County	117,788	195,802	207,200	49,572	570,564
Utah County					
I	13,876	30,600	128,000	5,562	178,038
K	77	-	64,800	-	64,877
L	15,555	49,148	38,400	5,940	109,043
M	3,162	-	22,400	1,458	27,020
N	4,452	-	197,600	1,728	203,780
O	733	-	43,200	539	44,472
Total Utah County	37,855	79,748	494,400	15,227	627,230
Wasatch County					
J	1,524	18,710	940,000	1,129	115,359
N. Juab County					
O	791	-	49,600	584	50,975
Total Basin	187,438	301,354	1,819,000	77,645	1,539,635

TABLE 7B

NON-DISCRETE INDUSTRIAL WASTES INVENTORY

(JANUARY 1973)

Planning Area	Industry	Location	Flow, gal/day	BOD, lbs/day
Davis County				
A				
	Clearfield Job Corps	Clearfield	190,000	188
	Glen's House of Meats	Syracuse	1,330	56
	Hill Air Force Base	Clearfield	800,000	2,400
	Murdock of Utah	Layton	48,800	30
	Woods Cross Canning	Clearfield	144,000	1,150
Planning Area Total			1,184,130	3,824
B				
	Clover Club Foods	Kaysville	80,000	556
	Lagoon Resort	Farmington	10,600	520
Planning Area Total			90,600	1,076
C				
	Feller Meat Packing	North Salt Lake County	2,550	12
	National Galvanizing	Centerville	1,700	0
	North Salt Lake Stockyards	North Salt Lake County	90,600	37
	Wells Tannery	North Salt Lake County	5,000	8
Planning Area Total			99,850	57
Davis County Total			1,374,580	4,957
Salt Lake County				
D				
	Morton Salt Company	Saltair	85,600	0
Planning Area Total			85,600	
E				
	American Electro Platings	Salt Lake City	12,900	1
	American Linen Supply	Salt Lake City	57,500	756
	Arden Meadow Gold Dairy	Salt Lake City	120,300	289
	Aro Pickle Products	Salt Lake City	13,150	84
	Art Plating Company	Salt Lake City	1,165	0
	Beehive Poultry Company	Salt Lake City	61,430	244
	Big John's Car Wash	Salt Lake City	9,870	1
	Brooklawn Creamery Company	Salt Lake City	12,400	28
	Coca Cola Bottling Company	Salt Lake City	62,400	8,664
	Coin-Op Cleaning Center	Salt Lake City	9,642	29
	College Center Laundry	Salt Lake City	11,532	39
	Concrete Products - Gibbons and Read	Salt Lake City	500,000	0
	Continental Baking Company	Salt Lake City	20,300	18
	Crown Plating Company	Salt Lake City	2,124	1
	Culligan Soft Water Service	Salt Lake City	21,700	4
	Day-Nite Launderenter	Salt Lake City	3,424	10

TABLE 7B (Cont'd)
NON-DISCRETE INDUSTRIAL WASTES INVENTORY
(JANUARY 1973)

Planning Area	Industry	Location	Flow, gal/day	BOD, lbs/day
Salt Lake County (continued)				
E				
	Day-Nite Laundercenter	Salt Lake City	8,552	26
	Day-Nite Laundercenter	Salt Lake City	8,320	25
	Day-Night Sunshine Center	Salt Lake City	2,700	8
	Down Town Laundromat	Salt Lake City	3,150	9
	Eagle Laundry Company	Salt Lake City	22,100	294
	East Bench Laundromat	Salt Lake City	2,585	8
	Eastman Kodak Company	Salt Lake City	1,480	0
	Eimco Corporation	Salt Lake City	466,700	180
	Federated Dairy Farms	Salt Lake City	71,000	33
	Filtrol Corporation	Salt Lake City	153,060	10
	Fisher Baking Company	Salt Lake City	16.400	11
	Fisher Dairy	Salt Lake City	7,410	9
	Galigher Company	Salt Lake City	29,000	20
	Glade Candy Company	Salt Lake City	21,100	6
	Glendale Plaza Sunshine Laundry	Salt Lake City	5,684	17
	Hi-Grade Meats	Salt Lake City	14,200	35
	Hygeia Ice Company	Salt Lake City	249,000	1
	Intermountain Farmers Assoc.	Salt Lake City	81,000	722
	Jiffy Laundromat	Salt Lake City	6,780	20
	Kleanerette	Salt Lake City	10,320	30
	Laundromat Shopping Center	Salt Lake City	10,058	30
	Litton Industries, Inc.	Salt Lake City	26,400	40
	Lucky Laundromat	Salt Lake City	4,300	13
	Metro Laundry and Dry Cleaning	Salt Lake City	22,764	321
	Miller Bros. Tablecloth & Linen	Salt Lake City	9,360	126
	Modern Sausage Company	Salt Lake City	2,670	6
	Monarch Meat Company	Salt Lake City	11,560	21
	Morrison Meat Pies	Salt Lake City	8,610	30
	Mountain State Creamery Company	Salt Lake City	28,800	136
	Mrs. Coudies Salad Company	Salt Lake City	17,750	43
	Mt. Olympus Beverage Company	Salt Lake City	7,860	71
	Nelson Ricks Creamery Company	Salt Lake City	1,400	114
	Norge Laundry, 1714 S. 4E.	Salt Lake City	7,344	22
	Norge Laundry, 2149 E. 21W.	Salt Lake City	6,560	20
	Norge Laundry, 660 N. 11W.	Salt Lake City	8,300	25
	Norge Laundry, 825 E. 21S.	Salt Lake City	11,494	34
	Palace Meat Company	Salt Lake City	14,200	34
	Paramount-Murray Laundry	Salt Lake City	68,000	892
	Pee.Tese Laundry	Salt Lake City	39,005	516
	Pepsi-Cola Bottling Company	Salt Lake City	13,960	2,176
	Quality Linen and Towel	Salt Lake City	91,000	1,203
	Quality Plating Company	Salt Lake City	6,540	1
	R-C Cola Bottling Company	Salt Lake City	28,454	2,175
	Rock-A-Dry-Baby Diaper Service	Salt Lake City	41,250	61

TABLE 7B (Cont'd)
NON-DISCRETE INDUSTRIAL WASTES INVENTORY
(JANUARY 1973)

Planning Area	Industry	Location	Flow, gal/day	BOD, lbs/day
Salt Lake County (continued)				
E				
	Rose Park Laundromat	Salt Lake City	3,270	10
	Salt Lake Meat Company	Salt Lake City	8,000	21
	Service, Inc.	Salt Lake City	5,200	66
	Shell's Selected Meats	Salt Lake City	440	1
	Steenblik Dairy	Salt Lake City	676	28
	Stevens Norge Village	Salt Lake City	7,580	23
	Sugarhouse Laundromat	Salt Lake City	3,444	10
	Sunshine Laundercenter	Salt Lake City	4,470	13
	Sweet Candy Company	Salt Lake City	39,500	20
	Swift & Company	Salt Lake City	2,640	16
	Top Line Meat Company	Salt Lake City	1,450	6
	Utah Wool Pulling Company	Salt Lake City	350,800	1,434
	Violet Ray Coin Laundry	Salt Lake City	3,000	7
	Violet Spray Auto Wash	Salt Lake City	2,730	1
	Wasatch Meat Company	Salt Lake City	1,160	5
	West Side Laundromat	Salt Lake City	2,560	8
	Western Aerial Lab	Salt Lake City	25,610	6
	Westinghouse Laundromat	Salt Lake City	4,620	14
	Wirthlin's Meat Company	Salt Lake City	4,430	31
Planning Area Total			3,059,397	21,462
F				
	Burton Place/Dairy	S. Salt Lake	20,050	6
	Doctorman Packing Company	S. Salt Lake	116,400	1,717
	Hall Candy Company	S. Salt Lake	290	1
	Harper-Jackson Sand & Gravel	Holladay	450,000	0
	Heber Valley Milk Company	E. Millcreek	7,100	18
	Hill Beverage Company	S. Salt Lake	1,872	1,156
	Jordan Meat & Livestock Company	Granger	17,150	103
	Main Street Poultry	S. Salt Lake	12,940	17
	Mrs. J. D. MacDonald Candy Co.	S. Salt Lake	48,860	30
	Norge Laundry & Cleaning Village	E. Millcreek	12,503	36
	Quiet Poultry, Inc.	S. Salt Lake	7,550	13
	R & W Dairy Products	S. Salt Lake	153,500	441
	Utah Sand & Gravel	Cottonwood Heights	165,800	0
	Utah Sand & Gravel	Kearns	22,140	0
	Valley Brand Meat Products	Granger	17,340	114
	Walker Sand & Gravel Company	Cottonwood Heights	144,000	0
	Winder Dairy	Granger	50,500	65
Planning Area Total			1,247,995	3,717

TABLE 7B (Cont'd)
NON-DISCRETE INDUSTRIAL WASTES INVENTORY
(JANUARY 1973)

Planning Area	Industry	Location	Flow, gal/day	BOD, lbs/day
Salt Lake County (continued)				
C				
	A & R Meats, Inc.	Murray	21,100	138
	Concrete Products Company	Murray	700	4
	Granite Meat & Livestock Company	Murray	28,400	441
	Hi-Land Dairy	Murray	115,500	253
	Murray City Power Plant	Murray	320	1
Planning Area Total			116,020	837
H				
	Fur Breeder's Agric. Co-op	Midvale	40,400	0
	M & M Wholesale Meats	Sandy	580	5
	Midvale Packing Company	Midvale	115,510	419
	U.S. Smelting, Refining & Mining Company	Midvale	145,500	8
	Utah State Prison	Draper	10,820	60
Planning Area Total			312,810	492
Salt Lake County Total			4,822,922	26,508
Utah County				
I				
	Baum Cannery	Olmstead	976,700	0
	Collier Beaver Farm	Lehi	7,200	8
	House of Milk and Honey	Orem	5,770	3
	Lehi Roller Mills	Lehi	1,560	0
	Mitchell Beaver Farm	Lehi	72,000	12
	Morrill's Turkeys	Orem	11,560	490
	Pleasant Grove Cannery	Orem	94,850	620
Planning Area Total			1,171,640	1,133
L				
	Alpine Frozen Foods	Provo	600	38
	Birrell Bottling Company	Provo	10,460	817
	Coca Cola Bottling Company	Provo	18,700	1,301
	Dennies Orn Beverage	Provo	3,930	63
	Jolley Poultry	Provo	6,720	29
	Kuhni & Sons, Inc.	Provo	14,400	143
	Seethaler Meat Company	Provo	2,300	16
	Troy Laundry	Provo	37,000	493
	Utah Packers, Inc.	Provo	65,700	800
Planning Area Total			159,810	3,700

TABLE 7B (Cont'd)
NON-DISCRETE INDUSTRIAL WASTES INVENTORY
(JANUARY 1973)

Planning Area	Industry	Location	Flow, gal/day	BOD, lbs/day
Utah County (continued)				
H				
	Bartholomew Slaughterhouse	Springville	1,920	160
Planning Area Total			1,920	160
K				
	Coca Cola Bottling Company	Payson	11,640	346
	Laundry Self Service	Payson	7,828	33
	Nelson Ricks Creamery Company	Spanish Fork	7,540	53
	Spanish Fork Packing Company	Spanish Fork	13,150	34
	Town Pride Dairy	Spanish Fork	17,540	79
Planning Area Total			57,698	545
Utah County Total			1,391,068	5,538
Wasatch County				
J				
	Clearview Trout Farm	Heber	2,700	326
Planning Area Total			2,700	326
Wasatch County Total				
Basin Total			7,590,370	37,323

TABLE 10a

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY SUBAREA SEGMENT

(Part 1)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity (JTU) Avg	Turbidity (JTU) Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
DAVIS COUNTY																												
Howard Slough																												
HS 1 (1,2,3)*	0.0-7.0	30.7	14.1	15.3	26.7	0.5	6.9	8.4	0.4	6.5	10.9	32.6	19,565	93,000	719	914	16.2	35.6	<1.7	48.7	5.60	12.00	0.19	0.23	26.0	100.0	80.0	80.0
Kaye Creek Drainage																												
KC 1 (1,2)	0.0-1.8	8.2	4.1	8.8	10.0	7.0	7.4	8.0	7.8	7.8	13.5	25.8	40,878	230,000	918	3,048	18.0	80.0	1.8	28.7	5.04	14.90	0.26	0.33	57.6	75.0	100.0	145.0
KC 2 (1)	1.8-5.6	-	-	9.1	10.0	6.1	8.3	8.3	-	-	3.6	19.0	7,568	43,000	760	784	24.0	50.0	11.4	28.7	2.10	3.20	-	-	87.0	105.0	100.0	100.0
KC 3 (1,5)	5.6-11.2	-	-	-	-	-	8.6	8.0	8.8	7.8	1.2	1.8	612	23,000	325	106	1.5	2.8	2	0	0.96	1.92	0.38	0.09	10.0	11.0	6.0	6.0
So. Fork Kaye Creek																												
SFKC 1 (1,5)	0.0-5.0	-	-	-	-	-	7.2	7.8	8.7	8.0	1.3	3.0	303	2,300	-	-	-	-	-	-	0.26	0.38	0.04	0.14	-	-	-	-
Holmes Creek Drainage																												
HC 1 (1,2)	0.0-4.6	15.0	3.0	26.7	26.7	26.7	7.5	7.8	10.1	8.4	2.7	5.3	1,042	1,600	350	432	18.0	28.0	2.0	0	0.25	0.36	0.03	0.11	20.0	20.0	26.0	36.0
HC 2 (1,5)	4.6-8.0	-	-	-	-	-	7.5	8.2	6.7	8.1	1.3	2.4	61,189	723,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No. Fork Holmes Creek																												
NFHC 1 (1,2,5)	0.0-8.2	15.7	3.7	12.2	26.7	2.0	7.9	8.6	10.9	8.4	4.8	5.8	6,079	43,000	136	192	17.3	53.0	0	0	4.08	8.16	0.21	0.40	38.0	45.0	17.0	17.0
Kaer Creek Drainage																												
BK 1 (1,3)	0.0-4.0	-	-	-	-	-	8.0	8.2	-	-	3.2	7.5	1,300	4,300	387	404	21.5	45.0	-	-	0.60	1.32	-	-	35.0	48.0	33.0	38.0
BC 2 (1,3)	4.0-7.8	-	-	10.5	20.0	4.4	7.5	8.2	8.1	5.6	15.1	39.7	532,997	9,300,000	627	584	5.0	5.0	-	-	1.98	1.56	0.99	0.99	53.0	72.0	31.0	32.0
Haight Creek Drainage																												
HaC 1 (1,2)	0.0-4.8	2.0	<1.0	26.7	26.7	26.7	STREAM	WAS	DRY		3.1	3.8	25	75	-	-	10.0	10.0	LIMITED	FLOW -	DURING	SOME	PERIODS	<1	CFS			
Farmington Creek Drainage																												
FC 1 (1,2)	0.0-3.5	13.7	0.5	16.5	26.0	8.0	6.2	8.4	10.6	9.0	5.0	8.4	10,676	21,000	399	450	55.0	60.0	-	-	7.20	14.40	0.06	0.10	26.0	48.0	7.0	7.0
FC 2 (1,5)	3.5-10.7	-	-	-	-	-	7.3	8.2	9.1	8.4	1.5	4.4	1,281	9,100	196	186	1.5	2.0	-	-	0.96	1.92	0.05	0.11	8.0	10.0	4.0	8.0
Steed Creek Drainage																												
SC 1 (1)	0.0-5.2	-	-	5.5	23.9	0.0	8.2	8.2	-	-	5.7	9.0	2,191	5,300	294	294	20.0	20.0	-	-	10.10	10.10	<0.01	<0.01	25.0	25.0	0.42	0.42
Ricks Creek Drainage																												
RC 1 (1)	0.0-1.9	-	-	5.5	23.9	0.0	-	-	-	-	58.9	430.2	3,287	15,000	-	-	6.5	8.8	-	-	-	-	-	-	-	-	-	-
RC 2 (1,5)	1.9-5.0	-	-	6.0	20.0	0.0	7.6	7.8	8.8	8.1	1.4	2.9	1,534	9,100	-	-		-	-	-	0.22	0.34	0.02	0.07	-	-	-	-
Barnard Creek Drainage																												
BaC 1 (1)	0.0-5.0	-	-	-	-	-	-	-	-	-	6.2	10.5	7,913	30,000	-	-	170.0	290.0	-	-	-	-	-	-	-	-	-	-

*Sampling Agencies

1. Davis County Health Department
2. University of Utah Engineering Experiment Station
3. Templeton, Linke & Alley, Consulting Engineers
4. U. S. Forest Service

TABLE 18A

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STATION SEGMENT

(Part II)

Stream Segment	River Mile	Fluoride (F) (mg/l) Avg	Max	Arsenic (As) (ug/l) Avg	Max	Barium (Ba) (ug/l) Avg	Max	Cadmium (Cd) (ug/l) Avg	Max	Chromium (Cr) (ug/l) Avg	Max	Copper (Cu) (ug/l) Avg	Max	Iron (Fe) (mg/l) Avg	Max	Lead (Pb) (ug/l) Avg	Max	Manganese (Mn) (ug/l) Avg	Max	Selenium (Se) (ug/l) Avg	Max	Silver (Ag) (ug/l) Avg	Max	Zinc (Zn) (ug/l) Avg	Max
DAVIS COUNTY																											
Howard Slough																											
HS 1 (1,2,3)*	0.0-7.0	29	40	2.0	4.0	0	0	0	0	0.1	0.4	0	0	51	105	0	0	0	0	0	0	0	0	0	0		
Kaysville Drainage																											
KC 1 (1,2)	0.0-1.8	66	88	0.6	2.0	8	11	0.1	0.8	2.2	5.8	0.9	2.0	46	210	0	0	3.2	20.0	0.1	0.3	0.4	3.0	10.0	40.0		
KC 2 (1)	1.8-5.6	35	36	1.0	1.0	8	8	0.4	0.8	0.1	0.3	0	0	210	240	0.3	0.5	4.5	9.0	0	0	0	0	0	0		
KC 3 (1,5)	5.6-11.2	6	6	0	0	0	0	0	0	0	0	0	0	100	20	0	0	0	0	0	0	0	0	0	0		
So. Fork Kays Creek																											
SFKC 1 (1,5)	0.0-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Holmes Creek Drainage																											
HC 1 (1,2)	0.0-4.6	23	32	0	0	0	0	0	0	0	0	0	0	85	170	0	0	0	0	0.3	0.5	0	0	0	0		
HC 2 (1,5)	4.6-8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
No. Fork Holmes Creek																											
NFHC 1 (1,7,5)	0.0-8.2	26	32	0.5	1.0	0	0	0	0	0	0	0	0	220	255	0	0	0	0	0	0	0	0	0	0		
Bear Creek Drainage																											
BC 1 (1,3)	0.0-6.0	26	26	0.5	1.0	0	0	0	0	0.2	0.2	3.3	3.0	98	190	2.3	4.2	2.5	5.0	0	0	0.5	1.0	0	0		
BC 2 (1,5)	6.0-7.8	55	55	0	0	3.9	3.9	0.2	0.2	0	0	0	0	130	130	6.5	9.0	9.0	9.0	0	0	0	0	0.3	16.6		
Haight Creek Drainage																											
HaC 1 (1,2)	0.0-4.0	-	-	-	-	-	-	STREAM BAS				LIMITED FLOW - DRAINS ZONE		PERIODS		<1 CFS											
Farmington Creek Drainage																											
FC 1 (1,2)	0.0-3.5	21	21	1.0	2.0	0	0	0	0	0	0	0	0	125	230	0	0	0	0	0.2	0.5	0	0	0	0		
FC 2 (1,5)	3.5-10.7	5	6	0	0	0	0	0	0	0	0	0	0	60	130	0	0	0	0	0	0	0	0	0	0		
Steed Creek Drainage																											
SC 1 (1)	0.0-5.2	22	22	1.0	1.0	0	0	0	0	0	0	0	0	6.0	6.0	0	0	0	0	0	0	0	0	0	0		
Ricks Creek Drainage																											
RC 1 (1,	0.0-1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RC 2 (1,5)	1.9-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barnard Creek Drainage																											
BaC 1 (1)	0.0-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

*Sampling Agencies
1. Davis County Health Department
2. University of Utah Environmental Training
3. Templeton, Waite & Olson, Consulting Engineers
4. U. S. Forest Service

TABLE 1CA (cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part 1)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
DAVIS COUNTY (Continued)																												
Farmington Creek Drainage																												
FC 1 (1)*	0.0-2.0	-	-	19.2	23.9	15.6	-	-	-	-	3.5	4.5	1,091	2,900	-	-	5.3	6.0	-	-	-	-	-	-	-	-	-	-
FC 2 (1,5)	2.0-5.8	-	-	-	-	-	7.5	8.1	8.7	8.1	1.4	3.1	656	4,300	-	-	-	-	-	-	0.13	0.34	0.03	0.07	-	-	-	-
Centerville Creek Drainage																												
CC 1 (1)	0.0-3.2	-	-	21.1	23.9	18.3	8.4	8.4	-	-	3.9	8.0	6,675	24,000	278	278	7.0	10.0	0	0	3.38	6.76	0.10	0.13	60	50	31.0	31.0
CC 2 (1,5)	3.2-7.1	-	-	3.0	3.0	3.0	7.6	8.0	8.8	8.2	1.5	7.5	1,069	4,300	-	-	8.0	8.0	-	-	0.05	0.24	0.06	0.23	-	-	-	-
Stone Creek Drainage																												
StC 1 (1,2)	0.0-4.2	3.7	2.1	11.5	27.0	1.7	7.5	9.1	13.2	7.8	5.6	8.9	9,685	43,000	520	1,370	43.0	91.0	1.3	3.4	1.56	7.68	0.17	0.26	42	65	34.0	52.0
StC 2 (1)	4.2-8.1	-	-	-	-	-	7.4	8.0	8.8	7.8	1.6	4.3	2,614	23,000	-	-	-	-	-	-	0.05	0.24	0.06	0.23	-	-	-	-
Holbrook Creek Drainage																												
HoC 1 (1)	0.0-5.0	-	-	15.6	15.6	15.6	7.3	8.2	-	-	2.9	6.5	46,488	230,000	367	650	9.3	26.0	0.85	1.70	3.19	9.60	0.05	0.07	62	85	34.5	52.0
HoC 2 (1)	5.0-8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mill Creek Drainage																												
MC 1 (1,2)	0.0-5.0	2.9	1.8	10.1	22.0	2.8	6.9	8.8	11.2	8.2	4.8	8.2	4,436	23,000	579	1,932	17.6	50.0	2.7	6.2	3.70	16.08	0.07	0.08	31	45	23.5	60.0
MC 2 (1,5)	5.0-11.3	-	-	-	-	-	7.9	8.2	9.9	8.2	1.3	2.4	1,942	23,000	244	244	1.0	1.0	-	-	1.56	3.12	0.03	0.13	12	15	6.0	6.0
SALT LAKE COUNTY																												
Jordan River																												
JR 1 (1,2,3)	0.0-8.8	195.0	31.0	11.6	21.1	4.4	7.0	8.1	9.3	4.8	8.4	23.8	637,693	9,300,000	1,186	1,412	8.5	14.0	4.4	6.4	1.78	5.04	2.90	9.90	312	443	276	367
JR 2 (3,6)	8.8-18.2	-	-	-	-	-	7.8	7.8	7.6	5.7	9.1	12.4	82,450	230,500	1,118	1,118	16.5	18.0	0	0	1.80	1.80	1.19	1.19	321	321	225	225
JR 3 (2,3,6)	18.2-25.0	422.0	146.0	11.0	20.0	4.0	6.3	8.5	9.2	6.9	8.3	23.0	357,538	2,600,000	1,192	1,740	18.0	75.0	0	0	1.22	5.28	0.98	4.29	302	427	253	322
JR 4 (3,6)	25.0-31.8	-	-	10.4	21.0	2.2	7.1	8.4	8.5	7.7	6.8	15.0	197,598	930,000	1,549	1,730	7.5	9.0	0	0	3.24	3.84	1.86	2.34	476	490	367	378
JR 5 (2,3,6)	31.8-44.0	129.0	18.6	10.8	19.0	4.0	6.7	8.4	9.1	4.9	4.2	11.5	61,202	1,500,000	1,518	2,085	13.9	80.0	5.6	5.6	1.51	2.88	0.24	1.72	424	541	354	460
JR 6 (2,3,6)	44.0-55.0	327.0	16.6	8.0	17.8	0	7.9	8.3	11.6	8.9	7.4	12.0	2,905	21,000	1,213	1,370	35.0	100.0	13.5	13.5	0.74	1.92	0.13	0.13	380	380	222	222
City Creek																												
CC 1 (2,6)	0.0-3.2	6.0	3.0	13.0	18.9	1.0	7.3	8.8	8.5	7.7	4.2	18.5	4,212	43,000	726	1,830	5.2	18.0	3.6	8.8	2.18	19.20	0.16	0.26	90	150	52	104
CC 2 (2,6)	3.2-13.1	7.8	1.2	8.8	14.0	3.0	7.4	8.3	9.5	8.0	-	-	86	2,400	270	297	-	-	-	-	0.06	0.26	-	-	18	23	18	23
Emigration Creek Drainage																												
EC 1 (2,3,6)	0.0-2.8	18.0	1.0	8.5	20.0	5.0	7.5	8.8	8.7	6.0	10.4	33.8	163,671	2,300,000	692	1,408	39.0	96.5	8.6	21.0	1.59	6.46	0.16	0.39	122	172	107	243
EC 2 (2,6)	2.8-10.0	-	-	-	-	-	7.3	8.3	8.8	6.0	3.8	12.8	46,192	230,000	86	210	12.0	20.0	-	-	0.18	0.48	-	-	100	146	45	116
EC 3 (5,6)	10.0-17.6	-	-	-	-	-	-	-	-	-	3.1	4.8	12,401	230,000	-	-	3.0	3.0	-	-	-	-	-	-	-	-	-	-
Red Butte Creek																												
RBC 1 (2,3,6)	0.0-2.5	-	-	8.3	21.1	0	7.7	8.1	9.2	9.6	4.5	24.5	562	2,400	941	1,970	3.0	8.0	5.0	12.5	1.70	5.10	-	-	87	105	369	705
RBC 2 (2,3,6)	2.5-6.7	2.2	1.3	-	-	-	7.9	8.3	-	-	1.8	2.8	60	160	401	426	6.0	6.0	-	-	0.04	0.12	-	-	100	113	14	16

*Sampling Agency:
1. Davis County Health Department
2. University of Utah Engineering Experiment Station
3. Tompkins, Linke & Alsop, Consulting Engineers
4. Salt Lake City-County Health Department
5. U. S. Forest Service

TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part II)

Stream Segment	River Mile	Fluoride (F) (mg/l) Avg	Max	Arsenic (As) (ug/l) Avg	Max	Barium (Ba) (ug/l) Avg	Max	Cadmium (Cd) (ug/l) Avg	Max	Chromium (Cr) (ug/l) Avg	Max	Copper (Cu) (ug/l) Avg	Max	Iron (Fe) (ug/l) Avg	Max	Lead (Pb) (ug/l) Avg	Max	Manganese (Mn) (ug/l) Avg	Max	Selenium (Se) (ug/l) Avg	Max	Silver (Ag) (ug/l) Avg	Max	Zinc (Zn) (ug/l) Avg	Max
DAVIS COUNTY (Continued)																									
Parrish Creek Drainage																									
PC 1 (1)*	0.0-2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PC 2 (1,3)	2.0-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Centerville Creek																									
CC 1 (1)	0.0-3.2	17	17	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0	0
CC 2 (1,3)	3.2-7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stone Creek Drainage																									
SoC 1 (1,3)	0.0-4.2	15	19	0.2	1.0	0	0	0	0	0.2	0.6	0	0	430	800	0	0	3.0	3.0	0.2	0.6	0	0	1.0	3.0
SoC 2 (1)	4.2-8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Holbrook Creek Drainage																									
HoC 1 (1)	0.0-3.0	11	17	0	0	0	0	0	0	0	0	0	0	40	50	0	0	0	0	0	0	0	0	0	0
HoC 2 (1)	3.0-8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mill Creek Drainage																									
MC 1 (1,2)	0.0-5.0	10	26	0.4	20.0	0	0	0	0.2	0.1	0.2	0	0	120	300	0.1	0.5	3.0	12.0	0.1	0.6	0.03	0.2	0	0
MC 2 (1,3)	5.0-11.3	0	10	0	0	0	0	0	0	0	0	0	0	30	40	0	0	0	0	0	0	0	0	0	0
SALT LAKE COUNTY																									
Jordan River																									
JR 1 (1,2,3)	0.0-6.6	162	256	5.0	14.0	33.4	49.2	0	0	0	0	0	0	142	452	1.2	15.1	6.7	4.2	29.5	90.0	5.3	10.0	1.6	6.6
JR 2 (3,4)	6.6-18.2	55	55	4.0	4.0	6	0	0	0	-	-	0	0	50	50	0	0	0	0	0	0	0	0	0	0
JR 3 (2,3,4)	18.2-25.0	185	410	0.7	1.5	3.6	11.3	0.2	1.0	0.1	-	2.6	3.2	223	460	0.7	1.6	2.9	3.2	0.4	1.0	0.1	0.6	2.3	13.6
JR 4 (3,4)	25.0-31.8	82	160	3.4	11.0	6.6	33.4	0	0	0	0	0.5	2.0	30	70	0	0	0.2	1.4	0.3	1.7	0.5	10.0	0.4	14.9
JR 5 (2,3,4)	31.8-44.0	63	280	1.5	6.0	2.2	28.0	0.2	4.5	0	0	5.3	4.2	74	899	0.2	1.0	1.5	10.2	0.3	2.0	0.7	25.0	1.2	12.0
JR 6 (2,3,4)	44.0-53.0	68	68	1.0	2.0	0	0	0.5	1.0	0	0	0	0	5	5	1.1	1.5	4.0	4.0	1.7	2.6	0	0	2.2	3.1
City Creek																									
CC 1 (2,4)	0.0-3.2	28	50	0	0	0.1	1.0	0.1	0.3	0.2	0.5	0.9	5.0	27	90	0.7	3.8	1.8	5.0	0.4	1.0	0.8	4.8	2.3	18.6
CC 2 (2,4)	3.2-13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emigration Creek Drainage																									
EC 1 (2,3,4)	0.0-2.8	36	50	0.3	2.0	2.2	15.0	0.1	0.3	0.2	0.5	0.4	1.3	94	230	0.9	3.7	1.3	5.8	0.8	4.4	0.4	2.6	1.5	8.8
EC 2 (3,4)	2.8-10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EC 3 (3,4)	10.0-17.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Red Butte Creek																									
RBC 1 (2,3,4)	0.0-2.5	0	13	0	0	0.1	0.3	0.2	0.4	0	0	2.9	8.0	10	33	2.3	4.6	1.7	3.0	1.0	4.2	1.6	5.2	7.1	21.2
RBC 2 (2,3,4)	2.5-8.7	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Sampling Agency

1. Davis County Health Department
2. University of Utah Technical Assistance Station
3. Templeton, Linke & Alcon, Consulting Engineers
4. Salt Lake City-County Health Department
5. U. S. Forest Service

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TABLE 10A (Cont'd)

UTAH - ASP - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part 1)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
SALT LAKE COUNTY (Continued)																												
Parley's Creek																												
PC 1 (2, 3, 4)*	0.0-4.8	18.0	1.0	-	-	-	8.0	8.3	6.7	6.0	3.8	4.4	5,113	15,000	409	544	10.0	11.0	1.4	1.4	11.50	24.96	0.02	0.07	100	150	104	104
PC 2 (2, 3, 4)	4.8-16.7	7.1	1.2	8.5	15.0	4.0	-	-	-	-	3.0	3.2	1,810	4,560	-	-	1.0	1.0	-	-	-	-	-	-	-	-	-	-
Mill Creek Drainage																												
MC 1 (2, 3, 4)	0.0-8.0	17.0	10.0	10.2	13.9	7.8	7.7	8.1	9.5	8.7	2.2	3.0	1,577	4,390	396	456	2.0	2.0	2.0	10.0	0	0	0	0	105	105	8	8
MC 2 (3, 4, 5)	8.0-19.4	-	-	13.0	19.0	6.0	8.3	8.5	8.3	7.7	1.4	2.6	76	240	390	390	1.5	2.0	0.5	0.5	1.68	3.36	0.07	0.17	86	100	6	6
Big Cottonwood Cr. Drainage																												
BCC 1 (2,4)	0.0-10.6	35.0	19.0	13.9	18.8	7.8	7.1	8.2	12.2	3.6	6.2	44.0	529,640	4,300,000	455	1,006	3.9	13.0	1.2	1.2	1.65	7.44	1.33	2.76	155	270	112	224
BCC 2 (4,5)	10.6-25.4	-	-	-	-	-	6.9	8.2	8.7	7.9	1.2	1.7	82	430	126	206	1.67	3.0	-	-	0.74	1.92	0.22	1.45	20	40	5	5
Little Cottonwood Cr. Drainage																												
LCC 1 (2, 3, 4)	0.0-11.0	28	3	12.6	24.0	0.0	7.6	8.5	11.1	7.8	4.3	6.9	3,685	12,000	944	1,359	23.5	45.0	0	0	0.94	1.70	0.19	0.78	188	300	214	214
LCC 2 (4, 5)	11.0-22.0	-	-	-	-	-	7.6	8.8	8.7	8.2	1.3	1.7	35	93	140	140	1	2	1.1	1.7	1.44	1.92	0.06	0.84	22	30	5	5
Dry Creek Drainage																												
DC 1 (3, 4)	0.0-10.4	DRY DURING SCHEDULED SAMPLING PERIODS													LIMITED FLOW DURING STORM PERIODS													
Bell Canyon Creek																												
BeCC 1 (3, 4)	0.0-6.3	-	-	-	-	-	7.6	7.9	-	-	1.8	2.8	120	460	70	78	1.0	2.0	-	-	0.48	0.96	0.05	0.10	8	10	2	2
Willow Creek Drainage																												
WC 1 (3, 4)	0.0-6.3	-	-	-	-	-	DAY DURING		2.0	2.5	379	1,100	SUMMER		20.0	20.0	-	-	AND FALL - INTERMITTENT STREAM									
WC 2 (3, 4)	6.3-10.2	-	-	-	-	-	7.4	7.4	-	-	2.0	2.0	8	8	-	-	0	0	-	-	0.05	0.05	0	0	5	5	1	1
Little Willow Creek																												
LWC 1 (3, 4)	0.0-4.8	-	-	-	-	-	DRY		8.7	8.7	1.4	1.5	112	20	DURING		1.0	1.0	-	-	SUMMER AND FALL - INTERMITTENT STREAM							
Corner Canyon Creek Drainage																												
CCC 1 (3, 4)	0.0-8.1	-	-	-	-	-	8.4	8.4	-	-	2.4	2.7	396	930	189	208	7.7	18	-	-	1.20	2.40	0.02	0.03	21	24	8	8
Bingham Creek Drainage																					INTERMITTENT STREAM							
BC 1 (3, 4)	0.0-13.1	DRY DURING SCHEDULED SAMPLING PERIODS																										
Midas Creek Drainage																												
MC 1 (3, 4)	0.0-9.0	-	-	-	-	-	7.8	8.1	8.4	8.4	3.2	6.4	12,004	40,000	2,137	2,182	80	116	1.4	1.4	29.76	89.28	0.20	0.30	718	755	488	488

*Sampling Agencies

2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Alder Consulting Engineers
4. Salt Lake City-County Health Department
5. U. S. Forest Service

TABLE 10A (Cont'd)

UTAH LAKE – JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part II)

Stream Segment	River Mile	Fluoride (F) (ug/l) Avg	Fluoride (F) (ug/l) Max	Arsenic (As) (ug/l) Avg	Arsenic (As) (ug/l) Max	Boron (Ba) (ug/l) Avg	Boron (Ba) (ug/l) Max	Cadmium (Cd) (ug/l) Avg	Cadmium (Cd) (ug/l) Max	Chromium (Cr) (ug/l) Avg	Chromium (Cr) (ug/l) Max	Copper (Cu) (ug/l) Avg	Copper (Cu) (ug/l) Max	Iron (Fe) (ug/l) Avg	Iron (Fe) (ug/l) Max	Lead (Pb) (ug/l) Avg	Lead (Pb) (ug/l) Max	Manganese (Mn) (ug/l) Avg	Manganese (Mn) (ug/l) Max	Selenium (Se) (ug/l) Avg	Selenium (Se) (ug/l) Max	Silver (Ag) (ug/l) Avg	Silver (Ag) (ug/l) Max	Zinc (Zn) (ug/l) Avg	Zinc (Zn) (ug/l) Max
SALT LAKE COUNTY (Continued)																											
Parley's Creek																											
PC 1 (2,3,4)	0.0-4.6	25	56	1.3	2.0	0	0	0	0	0	0	0.5		10	15	0	0	0	0	0	0	0.1	0.1	0	0
PC 2 (3,4)	4.6-16.7	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Mill Creek Drainage																											
MC 1 (2,3,4)	0.0-8.0	8	8	0	0	0	0	0	0	0.3	0.3	0	0			0	0	0	0	0	0	0	0	0	0
MC 2 (1,.5)	8.0-19.6	13	13	0	0	0	5	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0	0
Big Cottonwood Cr. Drainage																											
BCC 1 (2,4)	0.0-10.6	52	89	0.7	4.0	2.6	11.5	0.1	0.2	0.3	1.0	0.2	2.7	73	347	0.7	10.6	1.9	1.9	0	0	6.3	10.0	5.1	6.9
BCC 2 (4,5)	10.6-25.4	9	14	0.7	1.0	0	0	0	0	0	0	0	0	30	50	0	0	0	0	0	0	0	0	0	0
Little Cottonwood Cr Drainage																											
LCC 1 (2,3,4)	0.0-11.0	42	42	1.0	2.0	0	0	0.1	0.3	0	0	0.7	2.1	25	30	0.4	4.6	2.5	7.0	2.4	6.0	0.3	0.6	13.4	38.3
LCC 2 (4,5)	11.0-22.0	25	30	0	0	0	0	0.1	0.1	0	0	0	0	5	10	1	1	0	0	0	0	0	0		
Dry Creek Drainage																											
DC 1 (3,4)	0.0-10.6	DRY DURING SCHEDULED SAMPLING PERIODS										LIMITED FLOW DURING STORM PERIODS															
Bell Canyon Creek																											
BeCC 1 (3,4)	0.0-6.3	9	9	0	0	0	0	0	0	0	0	0	0	255	530	0	0	23.0	23.0	0	0	0	0	0	0
Willow Creek Drainage																											
WC 1 (3,4)	0.0-6.3	DRY DURING SUMMER AND FALL																INTERMITTENT STREAM									
WC 2 (3,4)	6.3-10.2	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Willow Creek																											
LWC 1 (3,4)	0.0-4.8	DRY DURING SUMMER AND ALL																INTERMITTENT STREAM									
Corner Canyon Creek Drainage																											
CCC 1 (3, 4)	0.0-6.1	38	38	0	0	0	0	0	0	0	0	0	0	20	30	0	0	0	0	0	0	0	0	0	0
Bingham Creek Drainage																											
BC 1 (3,4)	0.0-13.1	DRY DURING SCHEDULED SAMPLING PERIODS																INTERMITTENT STREAM									
Midas Creek Drainage																											
MC 1 (3,4)	0.0-9.0	36	38	1.3	3.9	104.0	495.0	0	0	0.2	0.3	3.0	5.0	185	350	0	0	1.5	3.0	0.2	0.5	0.4	1.2	1.0	3.9

*Sampling Agencies
2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Alsop, Consulting Engineers
4. Salt Lake City-County Health Department
5. U. S. Forest Service

TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part 1)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
SALT LAKE COUNTY (Continued)																												
Butterfield Creek																												
BuC 1 (3,4)*	0.0-8.0	-	-	-	-	-	7.0	7.8	7.3	7.4	5.0	16.0	4,640	24,000	1,639	1,988	99.0	95	0	0	1.37	2.98	0.69	1.35	584.0	790.0	248.0	248.0
BuC 2 (3,4)	8.0-10.2	-	-	-	-	-	8.4	8.4	8.3	8.3	3.8	12.5	5,108	21,000	478	478	90.0	85	-	-	0.18	0.18	-	-	290.0	290.0	23.0	23.0
BuC 3 (3,4)	10.2-16.0	-	-	-	-	-	8.2	8.4	8.0	8.0	3.0	5.5	622	2,300	680	680	41.0	87	-	-	0.11	0.17	0	0	365.0	440.0	32.0	33.0
Bass Creek																												
BC 1 (3,4)	0.0-12.3	-	-	-	-	-	8.3	8.4	-	-	2.1	2.7	54	200	440	440	22.0	32	-	-	0.64	17.28	0.12	0.17	48.0	55.0	66.0	66.0
UTAH COUNTY																												
Dry Creek (Lehi) Drainage																												
DC(L) 1 (1,2,)	0.0-6.5	2	0.0	11.0	11.0	11.0	-	-	-	-	4.2	8.8	333	1,200	375	375	3.0	7	2.5	2.5	10.30	10.35	0.60	0.60	49.8	49.8	7.0	7.0
DC(L) 2 (1,2,)	6.5-16.6	45	-	4.75	7.0	2.5	-	-	-	-	2.0	2.0	24	24	-	-	1.0	1	-	-	0.08	0.08	0.02	0.02	3.8	3.8	1.9	1.9
American Fork Creek Drainage																												
AF 1 (1,2)	0.0-6.5	4.0	0.0	10.7	22.5	9.5	8.1	8.1	7.1	5.7	4.1	8.0	2,700	5,400	408	931	3.0	1	-	-	0.52	1.49	0.26	0.26	89.7	100.0	12.7	18.0
AF 2 (1,2)	6.5-9.6	98	16	8.7	14.0	3.0	8.0	8.2	-	-	2.2	4.0	331	1,500	235	293	0.3	1	-	-	0.35	0.68	0	0	60.9	100.0	2.8	4.4
AF 3 (1,2)	9.6-22.6	81	14	8.4	14.0	2.5	-	-	-	-	3.8	4.0	117	200	218	285	1.8	1	-	-	0.25	0.32	-	-	52.5	90.0	-	-
Grove Creek Drainage																												
GC 1 (1,3)	0.0-4.5	-	-	-	-	-	8.3	8.3	-	-	1.6	1.6	135	130	339	339	1.0	1	-	-	0.53	0.53	0	0	35.0	35.0	2.0	2.0
Battle Creek Drainage																												
BC 1 (1,3)	0.0-4.3	-	-	-	-	-	8.4	8.4	-	-	2.0	2.4	103	160	198	198	1.5	2	-	-	0.53	0.53	0.07	0.07	26.0	26.0	7.0	7.0
Lower Provo River Drainage																												
PR 1 (1,2)	0.0-6.0	260	1	10.7	22.0	2.0	7.5	8.3	10.9	9.8	2.8	5.8	2,078	24,000	332	385	2.0	7	10.0	10.0	0.44	15.30	0.27	0.50	50.1	65.0	16.7	22.0
PR 2 (1,7)	6.0-18.5	229	20	10.3	17.0	3.0	7.9	8.1	-	-	3.4	6.6	345	2,300	227	240	1.0	2	-	-	0.25	0.58	0.07	0.13	39.7	48.0	6.0	6.0
PR 3 (1,2)	18.5-24.2	439	100	8.9	16.0	2.5	7.7	8.2	7.9	6.9	1.7	2.4	41	230	260	268	1.8	4	-	-	0.49	0.68	0.16	0.18	45.0	50.0	12.0	12.0
So. Fork-Provo River																												
SFPR 1 (1,2,3)	0.0-8.2	14	7	7.6	15.0	1.0	7.6	8.7	8.9	8.5	3.4	5.2	1,140	2,300	299	278	0.3	1	-	-	0.30	0.44	0.15	0.07	10.0	10.0	2.0	3.0
No. Fork-Provo River																												
NFPR 1 (2,3)	0.0-2.3	20	4	7.2	11.0	4.0	-	-	-	-	2.8	3.0	1,013	4,500	367	384	1.0	1	-	-	0.50	0.50	-	-	12.6	30.0	2.4	3.2
NFPR 2 (2,3)	2.3-6.3	27	17	4.8	7.8	9	7.1	8.1	9.4	9.4	1.6	2.5	160	460	196	205	1.0	1	-	-	0.37	0.42	0.25	0.33	11.0	15.0	3.0	4.0
Spring Creek Drainage																												
SC (EL) 1(7,3)	0.0-5.0	20	20	14.0	14.0	14.0	8.2	8.2	9.1	9.1	3.4	4.4	2,334	9,300	519	600	2.5	3	5.0	5.0	0.75	0.86	0.07	0.30	155.0	155.0	44.0	44.0

*Sampling Agency
1. Utah County Health Department
2. University of Utah Engineering Experiment Station
3. Tuvalesen, Linke and Olsen, Consulting Engineers
4. Salt Lake City-County Health Department
5. U. S. Forest Service

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TABLE 10a (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part II)

Stream Segment	River Mile	Fluoride (F) (mg/l) Avg	Max	Arsenic (As) (mg/l) Avg	Max	Barium (Ba) (mg/l) Avg	Max	Cadmium (Cd) (mg/l) Avg	Max	Chromium (Cr) (mg/l) Avg	Max	Copper (Cu) (mg/l) Avg	Max	Iron (Fe) (mg/l) Avg	Max	Lead (Pb) (mg/l) Avg	Max	Manganese (Mn) (mg/l) Avg	Max	Selenium (Se) (mg/l) Avg	Max	Silver (Ag) (mg/l) Avg	Max	Zinc (Zn) (mg/l) Avg	Max
SALT LAKE COUNTY (Continued)																									
Butterfield Creek																									
BuC 1 (3,4)	0.0-8.0	342	410	1.3	3.0	0	0	0.1	0.1	0.3	0.6	1.7	3.0	79	150	0	0	2.5	3.0	9.1	9.4	0	0	2.3	5.0
BuC 2 (3,4)	8.0-10.2	42	42	1.0	1.0	0	0	0.5	0.5	3.3	3.3	4.0	4.0	1010	1040	0	0	2.2	2.2	0	0	0.5	0.5	2.2	2.2
BuC 3 (3,4)	10.2-16.0	67	93	0	0	0	0	5	5.5	0	0	2.0	3.0	705	919	0	0	2.0	2.0	9.4	0.8	0	0	4.0	3.0
Bane Creek																									
BC 1 (3,4)	0.0-12.3	20	22	0.5	1.0	0	0	0	0	0	0	0	0	158	250	0	0	0	0	0	0	0	0	0	0
UTAH COUNTY																									
Dry Creek (Lehi) Drainage																									
DC(L) 1 (1,2)	0.0-6.5	10	10	0	0	0	0	0.2	0.2	-	-	2.0	2.0	11	11	3.9	3.8	4.6	4.6	2.0	2.0	-	-	4.3	4.3
DC(L) 2 (1,2)	6.5-16.6	-	-	UPPER	REACHES	OF DRY	CREEK	INTERMITTENT		DRY	MINING	SAMPLIC	PERIODS	-	-	-	-	-	-	-	-	-	-	-	-
American Fork Creek Drainage																									
AF 1 (1,2)	0.0-6.5	36	36	0	0	7.0	7.0	0	0	0	0	3.2	3.2	5	5	2.6	2.6	1.3	1.3	0	0	5.6	6.6	3.5	3.5
AF 2 (1,2)	6.5-9.6	155	300	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0		
AF 3 (1,2)	9.6-22.6	-	-	-	-	-	-	-	-	-	-	-	-	10	16	-	-	-	-	-	-	-	-	-	-
Grove Creek Drainage																									
GC 1 (1,3)	0.0-4.5	20	20	0	0	0	0	0	0	-	-	0	0	0	5	0	0	0	0	0	0	0	0	0	0
Battle Creek Drainage																									
BC 1 (1,3)	0.0-4.3	16	16	0	0	0	0	0	0	-	-	0	0	10	10	0	0	0	0	0	0	0	0	0	0
Lower Provo River Drainage																									
PR 1 (1,2)	0.0-6.0	22	25	0.2	1.0	5.2	9.5	0.1	0.3	0.1	0.2	1.3	1.7	6	20	0.7	2.7	2.0	9.7	0.7	2.7	0	0	1.0	30.4
PR 2 (1,2)	6.0-18.5	18	18	0.5	1.0	0	0	0.1	0.1	0	0	0	0	5	15	0	0	0	0	0	0	0	0	6.0	12.0
PR 3 (1,2)	18.5-26.2	26	30	3		1	2	0	0	0.2	18.6	20	40	3.9	8.1	0	2.3	0	0	0	0	3.4	2.7		
So. Fork-Provo River																									
SFPR 1 (1,2,3)	0.0-6.2	10	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. Fork-Provo River																									
NFPR 1 (2,3)	0.0-2.3	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NFPR 2 (2,3)	2.3-6.3	11	11	0	0	0	0	0	0	0	0	0.5	1.0	20	40	0	0	0	0	0	0	0	0	0	0
Spring Creek Drainage																									
SC (SL) 1 (2,3)	0.0-5.0	53	53	1.0	1.0	0	0	0.3	0.3	0.5	0.3	0	0	3	3	0.1	0.2	0	0	0	0	0	0	0	0

Sampling Agencies

1. Utah County Health Department
2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Alsup
4. Salt Lake City-County Health Department
5. U. S. Forest Service
6. U. S. Geological Survey

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TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part I)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
UTAH COUNTY (Continued)																												
Hobble Creek Drainage																												
HC 1 (1,2,4)	0.0-10.0	9	1	14.4	21.0	4.0	7.6	8.3	10.0	10.0	2.6	3.8	1,125	2,100	306	432	2.0	3	0	0	0.84	1.10	0	0	49.0	100	7.5	11.0
HC 2 (1,3)	10.0-24.2	-	-	-	-	-	8.3	8.3	-	-	3.6	5.0	172	260	207	282	0.7	1	-	-	0.36	0.36	0.10	0.10	10.0	10	-	-
So. Fork Hobble Creek																												
SFHC 1 (1,3)	0.0-8.6	-	-	-	-	-	-	-	-	-	2.1	3.3	53	120	-	-	1.0	1	-	-	-	-	-	-	-	-	-	-
Maple Creek Drainage																												
MC 1 (1,3)	0.0-5.0	-	-	-	-	-	-	-	-	-	2.7	4.8	57	150	-	-	5.5	6	-	-	-	-	-	-	-	-	-	-
Dry Creek (SF) Drainage																												
DC(SF) 1 (1,3,6)	0.0-5.3	8	8	10.0	17.0	0.0	8.1	8.5	8.7	7.7	6.8	10.6	134,093	930,000	580	580	-	-	5.0	5.0	1.15	1.15	0.24	0.24	135.0	135	-	-
Spanish Fork Drainage																												
SF 1 (1,2,3,6)	0.0-11.5	56	1	11.8	18.9	3.3	7.9	8.2	9.2	4.6	2.6	6.0	713	2,300	1,036	2,760	51.0	130	-	-	-	-	0.038	0.200	116.1	240	40.7	130.0
SF 2 (1,7,3)	11.5-18.6	86	10	8.8	17.2	2.2	8.2	10.2	9.2	8.0	2.3	4.8	7,916	43,000	563	740	18.2	60	-	-	-	-	0.034	0.120	98.6	126	31.3	37.0
SF 3 (1,3)	18.6-21.2	318	90	10.0	18.0	5.0	-	-	9.2	8.1	3.1	5.4	218	640	377	382	-	-	-	-	0.00	0.67	0.001	0.001	33.2	50	16.3	37.0
Diamond Fork																												
DF 1 (2,3)	0.0-10.0	340	143	12.1	18.5	8.0	8.1	8.3	8.9	8.1	1.9	2.9	232	930	391	573	86.2	112	-	-	-	-	0.069	0.195	31.6	39	9.1	16.0
DF 2 (3)	10.0-22.4	-	-	7.6	11.7	5.0	-	-	8.1	8.1	3.4	8.0	148	930	284	784	12.2	15	-	-	0.08	0.08	0.070	0.070	22.0	22	4.0	4.0
Sixth Water																												
SW 1 (3)	0.0-11.2	-	-	8.5	12.2	5.6	8.0	8.6	9.5	8.5	3.7	6.9	7,039	42,000	260	280	26.0	56	-	-	0.09	0.09	0.17	0.17	15.0	15	4.5	4.5
Soldier Creek																												
SC 1 (2,3,6)	0.0-25.8	48	15	12.3	20.0	1.1	8.1	8.7	9.2	8.0	2.4	6.3	666	2,100	716	990	52.3	98	-	-	-	-	0.030	0.030	43.0	55	12.9	24.0
Thistle Creek																												
TC 1 (2,3,6)	0.0-22.2	39	13	8.9	15.0	1.7	8.1	8.4	9.9	9.1	2.6	9.6	1,018	2,300	690	1,050	7.0	12	-	-	0.04	0.05	0.052	0.052	30.0	30	22.0	22.0
Benjamin Slough Drainage																												
BS 1 (1,2,3,6)	0.0-5.2	47		9.0	21.0	2.0	8.0	8.5	9.8	6.9	3.9	6.5	2,005	4,300	1,599	2,260	25.0	75	-	-	-	-	0.350	0.400	-	-	-	-
Bear Creek																												
BeC 1 (1,3,6)	0.0-7.6	-	-	20.0	24.0	11.0	7.8	8.0	9.2	9.0	2.7	4.4	48	120	430	470	9.0	9	-	-	1.06	1.06	0	0	72.0	72	26.0	26.0
Spring Creek																												
SC (SF) 1 (1,3)	0.0-7.4	-	-	-	-	-	-	-	-	-	2.8	3.5	1,192	4,300	-	-	48.0	50	-	-	-	-	-	-	-	-	-	-
Petersen Creek																												
PC 1 (1,3,6)	0.0-8.0	-	-	-	-	-	8.3	8.3	-	-	3.3	3.7	760	160	345	345	9.0	9	-	-	0	0	-	0	18.0	18	6.0	6.0

*Sampling Agency

1. Utah County Health Department
2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Olsen, Consulting Engineers
5. U. S. Forest Service
6. U. S. Geological Survey

TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part II)

Stream Segment	River Mile	Fluoride (F) (mg/l) Avg	Fluoride (F) (mg/l) Max	Arsenic (As) (ug/l) Avg	Arsenic (As) (ug/l) Max	Barium (Ba) (ug/l) Avg	Barium (Ba) (ug/l) Max	Cadmium (Cd) (ug/l) Avg	Cadmium (Cd) (ug/l) Max	Chromium (Cr) (ug/l) Avg	Chromium (Cr) (ug/l) Max	Copper (Cu) (ug/l) Avg	Copper (Cu) (ug/l) Max	Iron (Fe) (ug/l) Avg	Iron (Fe) (ug/l) Max	Lead (Pb) (ug/l) Avg	Lead (Pb) (ug/l) Max	Manganese (Mn) (ug/l) Avg	Manganese (Mn) (ug/l) Max	Selenium (Se) (ug/l) Avg	Selenium (Se) (ug/l) Max	Silver (Ag) (ug/l) Avg	Silver (Ag) (ug/l) Max	Zinc (Zn) (ug/l) Avg	Zinc (Zn) (ug/l) Max
UTAH COUNTY (Continued)																											
Bubble Creek Drainage																											
BC 1 (1,2,4)	0.0-10.0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	1.0		
BC 2 (1,3)	10.0-16.2	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
So. Fork Bubble Creek																											
SBBC 1 (1,3)	0.0-8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Maple Creek Drainage																											
MC 1 (1,3)	0.0-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dry Creek (SF) Drainage																											
DC(SF) 1 (1,3,4)	0.0-5.3	110	110	0	0			4	4	0	0	9.4	0A	45.4	45.4	1.0	1.0	1.0	1.0	0	0	9.7	0.7	0.4	4.5		
Spanish Fork Drainage																											
SF 1 (1,2,3,4)	0.0-11.5	48	100	0	0	0	0	0	0	0.6	1.3	0	0	4.7	7.0	9.2	0.4	2.0	5.0	0.3	0.8	0	0	0	0		
SF 2 (1,2,3)	11.5-18.6	38	41	9.6	2.0	0.3	1.0	0	0	0.8	1.0	0.6	5.0	45.0	80.0	0	0	0	0	0.3	0.5	0	0	0.5	1.0		
SF 3 (1,3)	18.6-21.2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Diamond Fork																											
DF 1 (2,3)	0.0-18.0	25	40	0	0	0	0	0	0	0	0	0	0	170.0	170.0	0	0	0	0	0	0	0	0	0	0		
DF 2 (3)	18.0-22.6	-	-	0	0	0.1	0.1	0	0	0	0	0	0	10.0	10.0	0	0	0	0	0.2	0.2	0	0	10.0	10.0		
Sixth Water																											
SW 1 (3)	0.0-11.2	20	20	0	0	2.1	2.1	0	0	0	0	0	0	8.0	8.0	0	0	0	0	0	0	0	0	6.0	6.0		
Bolster Creek																											
BC 1 (2,3,4)	0.0-15.8	22	36	0	0	0	0	0	0	0	0	0	0	260.0	260.0	0	0	0	0	0	0	0	0	0	0		
Thistle Creek																											
TC 1 (2,3,4)	0.0-22.2	54	54	0	0	0	0	0	0	0	0	0	0	13.0	25.0	0	0	0	0	4	9	0	0	0	0		
Benjamin Slough Drainage																											
BS 1 (1,2,3,4)	0.0-3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bear Creek																											
BeC 1 (1,3,4)	0.0-7.4	14	14	0	0	0	0	0	0	0	0	0	0	30.0	30.0	0	0	0	0	0	0	0	0	0	0		
Spring Creek																											
SC (SF) 1(1,3)	0.0-7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Peteetneet Creek																											
PC 1 (1,3,4)	0.0-6.0	10	10	0	0	0	0	0	0	0	0	0	0	6.0	6.0	0	0	0	0	0	0	0	0	0	0		

*Sampling Agency:

1. Utah Coast, Health Department
2. University of Utah Engineering Experiment Station
3. Tanaleros, Links and Alsop, Consulting Engineers
4. U. S. Geological Survey
5. U. S. Forest Service

TABLE 17A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part I)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
UTAH COUNTY (Continued)																												
Dumont Creek																												
DuC 1 (3)	7.7-18.0	-	-	-	-	-	8.2	8.2	-	-	5.0	6.9	922	2,300	209	209	35.0	35.0	-	-	0	0	0	0	18.0	18.0	5.0	5.0
Tintic Mine Drainage																												
TMD 1 (3)	0.0-2.4	-	-	19.0	22.8	15.6	7.2	8.1	-	-	5.7	9.3	2,117	9,500	5,211	13,000	14.4	25.0	8.5	17.0	9.04	39.84	0.90	1.65	708.0	1,050.0	3,284.0	4,400.0
TMD 2 (3)	2.4-44	-	-	31.3	37.2	23.9	7.1	7.8	-	-	4.0	12.8	165	240	7,019	7,560	63.7	99.0	48.0	76.0	11.00	39.84	0.27	0.46	375.0	4,650.0	3,400.0	3,600.0
West Canyon Wash Drainage																												
WCW 1 (2,3)	0.0-19.0	2.7	2.7	22.0	22.0	22.0	8.5	8.5	7.3	7.3	2.9	2.9	490	490	453	453	-	-	-	-	0.16	0.16	0	0	-	-	-	-
WASATCH COUNTY																												
Upper Provo River Drainage																												
PR 4 (2,4,5)	26.2-32.2	230	34	6.9	15.5	1.0	-	-	10.7	8.0	2.9	8.0	3,300	23,000	263	292	2.7	5.0	-	-	0.65	0.65	0.64	0.90	46.0	55.0	14.0	16.0
PR 5 (2,4,5)	32.2-40.2	702	-	7.3	9.0	0.0	-	-	-	-	1.7	2.5	3,060	15,000	292	292	1.5	2.0	-	-	0.10	0.20	0.05	0.10	52.5	70.0	1.0	1.0
PR 6 (2,4,5)	40.2-44.2	519	66	4.7	8.0	1.5	7.3	8.1	7.4	7.4	1.3	1.5	23	70	57	62	-	-	-	-	0.23	.25	0.06	0.06	3.1	8.3	2.8	4.8
Provo River Creek																												
PRC 1 (2,3,4)	0.0-11.1	19	-	9.0	16.0	2.5	6.9	8.4	8.7	8.1	<1.0	2.8	93	230	258	280	3.0	4.0	-	-	0.27	0.37	0.06	0.12	59.8	69.0	4.7	5.7
Hale Creek																												
HC 1 (2,4)	0.0-5.4	12	4.0	10.3	17.0	3.0	7.8	8.4	9.2	7.3	3.0	8.8	438	750	339	339	3.6	12.0	4.2	5.4	1.00	3.10	0.60	1.90	19.0	20.0	18.0	22.0
HC 2 (2,4)	5.4-14.8	15	7.0	11.7	18.0	4.0	7.8	8.0	8.3	7.2	3.5	5.8	455	750	292	365	4.5	8.0	-	-	0.56	0.61	0.25	0.31	19.8	21.0	14.0	17.0
Bastels Creek																												
BC 1 (2,4)	0.0-6.8	10	4.0	10.0	16.0	2.0	8.1	8.5	10.1	9.7	3.5	6.2	302	1,500	266	276	5.0	10.0	-	-	0.16	0.31	0.70	0.70	22.5	35.0	10.0	10.0
BC 2 (2,4)	6.8-19.2	10	5.0	10.0	16.0	4.0	-	-	10.0	9.5	1.7	2.6	0	0	176	176	3.0	6.0	-	-	0.22	0.43	0.15	0.30	10.0	10.0	10.0	10.0
Lake Creek																												
LC 1 (6)	0.0-16.0	-	-	10.0**	17.0**	2.0	8.1	8.2	9.5**	7.9**	2.8	3.9	200	660	167	182	3.3	5.0	-	-	0.66	1.30	0.23	0.25	4.5	5.0	5.0	5.0
Center Creek																												
CC1 (4)	0.0-10.0	-	-	3.3	3.3	3.3	8.1	8.4	-	-	3.0	5.5	310	930	214	214	7.7	12.0	-	-	0.88	1.25	0.18	0.23	34.5	35.0	6.0	6.0
Drain Tunnel Creek																												
DTC 1 (2,4)	0.0-3.4	16	12	10.7	17.0	3.0	7.3	8.2	8.5**	8.0**	9.7	3.3	1,114	2,900	518	730	7.0	10.0	-	-	0.57	1.70	1.00	1.80	188.0	210.0	18.5	20.0
DTC 2 (2,4)	3.4-5.5	-	-	10.0	10.0	10.0	7.6	7.9	8.5**	8.0**	3.9	3.0	768	2,300	410	424	7.3	14.0	-	-	84.09	250.00	0.20	0.20	183.0	191.0	12.0	12.0
Refinery Creek																												
RRC 1 (2,3,4)	0.0-1.4	3	2.4	9.7	26.5	3.0	7.4	8.2	8.6	7.2	4.5	6.0	1,720	5,300	1,208	1,592	4.6	14.0	-	-	2.10	12.00	1.10	2.30	648.0	1,080.0	16.6	30.0
RRC 2 (3,4)	1.4-4.1	-	-	15.5	15.5	15.5	7.8	8.2	8.4	8.4	3.9	4.0	2,635	9,300	1,432	1,432	1.0	1.0	-	-	0.00	0.00	0.30	0.30	960.0	960.0	-	-

**Estimated from similar streams in area

*Sampling Agencies
1. Utah County Health Department
2. University of Utah Engineering Emeritanet Station
3. Templeton, Linke & Alsup, Consulting Engineers
4. Wasatch County Health Department
5. U. S. Forest Service
6. U. S. Geological Survey

TABLE 13A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Page II)

Stream Segment	River Mile	Fluoride (F) (ug/l) Avg	Max	Arsenic (As) (ug/l) Avg	Max	Barium (Ba) (ug/l) Avg	Max	Cadmium (Cd) (ug/l) Avg	Max	Chromium (Cr) (ug/l) Avg	Max	Copper (Cu) (ug/l) Avg	Max	Iron (Fe) (ug/l) Avg	Max	Lead (Pb) (ug/l) Avg	Max	Manganese (Mn) (ug/l) Avg	Max	Selenium (Se) (ug/l) Avg	Max	Silver (Ag) (ug/l) Avg	Max	Zinc (Zn) (ug/l) Avg	Max
UTAH COUNTY (Continued)																									
Summit Creek																									
SuC 1 (3)	7.0-18.0	15	15	0	0	0	0	0	0	0	0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	5.0	5.0
Electric Mine Drainage																									
EMD 1 (3)	0.0-2.4	130	145	16.9	40.0	84.2	300.0	1.4	7.0	0	0	9.0	35.0	55	110	8.7	32.0	2.0	2.0	1.2	5.0	0.6	1.4	26.4	87.5
EMD 2 (3)	2.4-4.6	148	150	16.9	41.0	40.0	300.0	1.8	5.0	0	0	35.3	75.0	68	120	29.0	47.0	6.0	10.0	0.8	3.0	2.5	6.3	123.1	361.3
West Canyon Mine Drainage																									
WCM 1 (4,6)	0.0-19.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MASTER COUNTY																									
Upper Provo River Drainage																									
PR 4 (2,4,5)	26.3-32.2	19	25	0	0	0.6	1.3	0.2	0.4	-	-														
PR 5 (2,4,5)	32.2-40.2	13	16	0	0	0	0	0	0	-	-	0.4	1.1	0	11	0.3	0.7	0.4	1.1	0	0	-	-	0	0
PR 6 (2,4,5)	40.2-46.2	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
												-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provo River Creek																									
PrC 1 (2,3,4)	0.0-11.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock Creek																									
RC 1 (2,4)	0.0-3.4	18	25	0.3	1.0	0.3	1.4	0	0	0.2	0.2	2.0	2.0	0	0	0	0	0	0	0	0	0	0	0	0
RC 2 (2,4)	3.4-16.8	48	68	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parkside Creek																									
DC 1 (2,4)	0.0-6.8	14	15	0	0	0	0	0.1	0.1	0	0	0	0	20	60	0.3	0.6	0	0	0	0	0	0	0	0
DC 2 (2,4)	6.8-19.2	18	18	0	0	0	0	0.1	0.1	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0
Lake Creek																									
LC 1 (4)	0.0-10.0	10	10	0	0	0	0	0.1	0.1	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0	0
Center Creek																									
CC 1 (4)	0.0-10.0	7	7	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0
Drain Tunnel Creek																									
DTC 1 (2,4)	0.0-3.4	33	36	0	0	0	0	0	0	0.4	0.8	0	0	77	155	0	0	14.3	30.0	0	0.4	0	0	10.1	15.0
DTC 2 (2,4)	3.4-5.5	38	41	4.7	1.0	0	0	0.1	0.3	0	0	2	5	0.7	1.2	11.5	11.0	0	0	0	0	0	0	28.6	30.0
Hobble Creek																									
HBC 1 (2,3,4)	0.0-1.4	61	79	1.4	1.0	1000.0	3001.0	0.2	1.2	0	0	1.0	2.0	44	136	0.3	0.9	2.0	20.0	0.3	2.3	0	0	5.0	5.0
HBC 2 (4)	1.4-4.1	32	32	0	0	0	0	0	0	0	0	0	0	0	5	0	0	20.0	18.0	0	0	0	0	2.0	2.0

Sampling Agency

1. Utah County Health Department
2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Alsop, Consulting Engineers
4. Wasatch County Health Department
5. U. S. Forest Service
6. U. S. Geological Survey

TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part I)

Stream Segment	River Mile	Flow (CFS) Avg	Flow (CFS) Min	Temperature (°C) Avg	Temperature (°C) Max	Temperature (°C) Min	pH (units) Min	pH (units) Max	DO (mg/l) Avg	DO (mg/l) Min	BOD (mg/l) Avg	BOD (mg/l) Max	Coliform (MPN/100 ml) Avg	Coliform (MPN/100 ml) Max	TDS (mg/l) Avg	TDS (mg/l) Max	Turbidity JTU Avg	Turbidity JTU Max	Oil & Grease (mg/l) Avg	Oil & Grease (mg/l) Max	Nitrate (NO_3) (mg/l) Avg	Nitrate (NO_3) (mg/l) Max	Phosphate (PO_4) (mg/l) Avg	Phosphate (PO_4) (mg/l) Max	Sulfate (SO_4) (mg/l) Avg	Sulfate (SO_4) (mg/l) Max	Chloride (Cl) (mg/l) Avg	Chloride (Cl) (mg/l) Max
UINTAH COUNTY (Continued)																												
Uinta-Provo Diversion Canal																												
UPDC 1 (2,4)	0.0-9.3	77.0	2.0	7.26	13.5	2.0	7.7	8.5	10.8	11.4	4.8	10.3	385	- -	182	224	1.3	3.0	-	-	0.38	1.13	0.53	0.60	85.0	10.0	3.00	3.00
Snake Creek																												
SC 1 (2,4)	0.0-4.9	40.0	40.0	10.8	18.0	7.5	7.0	7.5	8.9	8.2	2.6	3.9	570	930	767	887	1.0	1.0	-	-	0.92	1.10	0.86	1.90	220.0	220.0	-	-
SC 2 (2,4)	4.9-10.0	16.0	6.0	11.1	16.0	3.3	8.1	8.2	-	-	1.5	3.0	33	230	472	550	9.5	35.0	-	-	0.87	1.30	0.43	1.30	10.0	10.0	.001	.001
Dunbar Creek																												
DuC 1 (4)	0.0-3.1	-	-	-	-	-	8.1	8.1	-	-	5.8	7.6	14,433	29,000	268	268	5.5	7.0	-	-	2.90	2.90	0.20	0.20	50.0	50.0	-	-
Spring Creek																												
SpC 1 (2,4)	0.0-4.8	2.8	2.8	16.0	21.0	-	8.0	8.8	9.2	8.0	2.8	3.7	313,000	930,000	219	286	15.0	25.0	2.6	3.6	-	-	-	-	-	-	-	-

*Sampling Agencies
2. University of Utah Engineering Experiment Station
3. Tourtelotte, Liddle, and Alsop, Consulting Engineers
4. Uintah County Health Department
5. U. S. Forest Service
6. U. S. Geological Survey

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TABLE 10A (Cont'd)

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN STREAMS

WATER QUALITY BY STREAM SEGMENT

(Part II)

Stream Segment	River Mile	Fluorine (F) (mg/l) Avg	Max	Arsenic (As) (mg/l) Avg	Max	Barium (Ba) (mg/l) Avg	Max	Cadmium (Cd) (mg/l) Avg	Max	Chromium (Cr) (mg/l) Avg	Max	Copper (Cu) (mg/l) Avg	Max	Iron (Fe) (mg/l) Avg	Max	Lead (Pb) (mg/l) Avg	Max	Manganese (Mn) (mg/l) Avg	Max	Selenium (Se) (mg/l) Avg	Max	Silver (Ag) (mg/l) Ave	Max	Zinc (Zn) (mg/l) Avg	Max
WASATCH COUNTY (Continued)																									
Weber-Provo Diversion Canal																									
WPDC 1 (2,4)	0.0-9.3	9	11	0	0	0	0	0	0	0	0	0	0	10.0	20.0	0.3	0.5	0	0	0	0	0	0	0	0
Snake Creek																									
SC 1 (2,4)	0.0-4.9	9	120	1.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SC 2 (2,4)	4.9-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Dutton Creek																									
DuC 1 (4,)	0.0-3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spring Creek																									
SpC 1 (2,4)	0.0-4.8	-	-	0	0	0	0	0	0	0	0	0	0	70.0	20.0	3.0	3.0	4.3	4.3	0	0	1.0	10.0	2.1	4.1

*Sampling Agencies

2. University of Utah Engineering Experiment Station
3. Templeton, Linke and Alley, Consulting Engineers
4. Wasatch County Health Department
5. U. S. Forest Service
6. U. S. Geological Survey

TABLE 1C8

WATER QUALITY PROBLEMS IN

NATURAL STREAMS

STREAMS	STREAM SEGMENT	COLIFORM MPN	BOD	O & G	TDS	NO_3-N	PO_4-P	CATIONS	ANIONS	pH	JTU	TEMP.	PEST.	RADIOACTIVITY
DAVIS COUNTY														
Howard Slough	HS-1	AS	AS	S	AS	A	A	SN				N		
Kays Creek	KC-1,2		S	S	AS	A		SN				N		
Holmes Creek	HC-1	S		S		A	A	N						
Baer Creek	BC-1,2	SN	N	S		AN	A	ASN			A	N		
Farmington Creek	FC-1	S	AS	S		A	A	N			A	N		
Ricks Creek	RC-1		A											
Barnard Creek	BaC-1	A	A								A			
Centerville Creek	CC-1	AS	AS											
Stone Creek	SC-1	IS	I	S		AI	A	SN	S		A	N		
Holbrook Creek	HoC-1					A	A	N						
Mill Creek	MC-1		S	IN		AI	A	N	IS			N		
SALT LAKE COUNTY														
Jordan River	JR-1,2,3,4,5,	AISN	AISN	ISN	ASN	AI	AI	AISN	AISN		AS			
City Creek	CC-1	S	S	S	S	S	S	S						
Emigration Creek	EC-1,2,3	N	N					N						
Red Butte Creek	RBC-1	S	S	S	S	S		S	S					
Parleys Creek	PC-1	S	S	S	S	S	S	SN						
Mill Creek	MC-1,2	SN	SN	SN	ASN	A	A	ISN	IS					
Big Cottonwood Creek	BC-1,2	SN		IS	A	AS	AS	SN	SNN					
Little Cottonwood Creek	LCC-1,2	SN	S	N	A	A	A	SN	A					
Midas Creek	MiC-1	S		S	AS			AN	AN		AS			
Butterfield Creek	BuC-1,2	A	A	S	A			AN	ASN		AS			
UTAH COUNTY														
Jordan River	JR-6		AN		AN			AN	AN					
Dry Creek (Lehi)	DC(L)1			S		A	A	AN						
American Fork Creek	AF-1		A		A	A	A							
Provo River	PR1	AS	AS	S		A	A	ASN						
Spring Creek(S)	SC(S)-1	N	ISN	S	AS	AS	AS	ASN						
Hobble Creek	HC-1	AS	S	S	AS	AS	A	AN	AMN					
Dry Creek (SF)	DC(SF)-1	AN	AN	N	AMN			AN						
Spanish Fork Creek	SF-1				A	A	A	ASN						
Diamond Fork Creek	DF-1		A		N	A	A	AN			AN			
Sixth Water Creek	SW-1	AN	A		N									
Benjamin Slough	BS-1	A					A				AN			
Beer Creek	BeC-1	AN	AN	N	N			AN				N		
Spring Creek (SF)	SC(SF)-1				AN			AN	AN					
Thistle Creek	TC-1		AIN		AN									
Tintic Mine Drain	TMD-1		IN	I	IN	I	I	IN	IN			IN		
WASATCH COUNTY														
Decker Creek	DeC-1	AS	AS					AN						
Snake Creek	SC-1			SN	ASN	ASN	ASN	ASNN						
McHenry's Creek	McC-1				IN	I	I	IN	IN					
Drain Tunnel Creek	DTC-1				IN	I	I	I						
Daniels Creek	DC-1					A	A	A						
Lake Creek	LC-1		S	S		A	A	ASN						
Center Creek	CC-1					A	A							
Main Creek	MC-1			S		A	A							
Spring Creek	SpC-1			N				ASNN	N					
JUAB COUNTY														
Currant Creek	CC-1				AN	A		AN						
Salt Cr. Dr.	SC-1				AN									

A = AGRICULTURE
I = INDUSTRY
S = STORM-URBAN RUNOFF
M = MUNICIPAL
N = NATURAL

TABLE 11A

JORDAN RIVER WATER QUALITY MODEL

PHYSICAL CHARACTERISTICS OF JORDAN RIVER

Reach	River Mile		Hydraulics					Reaction Coefficients, -1 day		
	From	To	(1) Coef QV	(1) Expo QV	(2) Coef QH	(3) Expo QH	Manning's n	(4) k_1	(5) k_2	(6) k_3
1[a]	33.5	30.0	0.300	0.400	0.100	0.630	0.030	0.21	0.60	0
2	30.0	27.0	0.300	0.400	0.050	0.630	0.050	0.25	0.50	0
3	27.0	26.0	0.320	0.400	0.050	0.630	0.030	0.30	0.50	0
4	26.0	25.0	0.260	0.400	0.050	0.600	0.035	0.30	0.40	0
5	25.0	24.0	0.200	0.400	0.060	0.600	0.040	0.35	0.40	0
6	24.0	20.5	0.240	0.400	0.060	0.600	0.050	0.35	0.40	0
7	20.5	18.0	0.210	0.400	0.060	0.600	0.030	0.35	0.40	0
8	18.0	16.0	0.130	0.400	0.060	0.630	0.040	0.35	0.40	0
9	16.0	13.0	0.210	0.400	0.060	0.630	0.040	0.35	0.40	0
10	13.0	6.0	0.120	0.400	0.070	0.630	0.060	0.35	0.40	0
11[b]	6.0	0.0	0.050	0.400	0.070	0.630	0.070	0.21	0.40	0

(1) Velocity = Coef QV x $Q^{\text{Expo QV}}$

(2) Depth = Coef QH x $Q^{\text{Expo QH}}$

(3) Manning's Roughness Coefficient

(4) Deoxygenation Coefficient, base e

(5) Re-aeration Coefficient, base e

(6) Rate of BOD removal (settling), base e

a - Begins at Utah Lake

b - Terminates at Great Salt Lake

TABLE 11B

JORDAN RIVER WATER QUALITY MODEL

WASTE LOAD DATA FOR AUGUST, 1972 MODEL CALIBRATION

Waste Load Number	Point Discharges					Withdrawals	
	Name	Flow, cfs	Temperature, °F	Dissolved Oxygen mg/l	Biochemical Oxygen Demand mg/l	Name	Flow cfs
1	Sandy City STP	2.5	72.0	5.0	30.0	---	---
2	Tri-Community STP	5.9	72.0	5.0	30.0	---	---
3	Murray City STP	4.2	72.0	5.0	30.0	---	---
4	Salt Lake Co. Cottonwood STP	6.4	72.0	5.0	30.0	---	---
5	Cottonwood & Mill Creek Inflow	71.0	72.0	6.0	3.0		
6	Granger-Hunter STP	7.8	72.0	5.0	30.0	---	---
7	Salt Lake City Suburban No. 1 STP	17.1	72.0	5.0	30.0	---	---
8	South Salt Lake STP	4.1	72.0	5.0	30.0	---	---
9	---	---	---	---	---	Surplus Canal	200
10	---	---	---	---	---	Rm 10 Withdrawal	25
11	South Davis STP	1.9	72.0	5.0	30.0	---	---
12	---	---	---	---	---	Rm 3 Withdrawal	40

TABLE 11C

JORDAN RIVER WATER QUALITY MODEL

NON-POINT SOURCE DATA FOR AUGUST, 1972 MODEL CALIBRATION

Reach Order	River Mile From	River Mile To	Flow cfs	Temperature °F	Dissolved Oxygen, mg/l	Biochemical Oxygen Demand, mg/l
1[a]	33.5	30.0	25.0	72.0	7.0	6.5
2	30.0	27.0	25.0	72.0	7.0	6.5
3	27.0	26.0	10.0	72.0	7.0	6.5
4	26.0	25.0	5.0	72.0	7.0	6.5
5	25.0	24.0	5.0	72.0	7.0	6.5
6	24.0	20.5	19.0	72.0	7.0	6.5
7	20.5	18.0	30.0	72.0	7.0	6.5
8	18.0	16.0	7.4	72.0	7.0	6.5
9	16.0	13.0	40.0	72.0	6.0	6.5
10	13.0	6.0	3.1	72.0	7.0	6.5
11[b]	6.0	0.0	0.0	72.0	7.0	6.5

a - Begins at Utah Lake
b - Terminates at Great Salt Lake

TABLE 11D

JORDAN RIVER WATER QUALITY MODEL

WASTE LOAD DATA FOR APRIL, 1974 MODEL VERIFICATION

Waste Load Number	Point Discharges					Withdrawals	
	Name	Flow, cfs	Temperature, °F	Dissolved Oxygen mg/l	Biochemical Oxygen Demand mg/l	Name	Flow cfs
1	Sandy City STP	5.1	54.5	3.5	12.0	---	---
2	Tri-Community STP	5.1	51.5	7.3	12.0	---	---
3	Murray City STP	5.6	44.2	6.9	10.9	---	---
4	Salt Lake Co. Cottonwood STP	14.2	51.0	6.5	12.0	---	---
5	Cottonwood & Mill Creek Inflow	90.0	41.0	10.6	15.0	---	---
6	Granger-Hunter STP	9.7	52.5	7.9	17.9	---	---
7	Salt Lake City Suburban No. 1 STP	23.7	51.0	7.4	10.7	---	---
8	South Salt Lake STP	5.8	49.5	8.9	10.8	---	---
9	---	---	---	---	---	Surplus Canal	515.0
10	---	---	---	---	---	Rm 10 Withdrawal	35.0
11	South Davis So. STP	2.5	56.0	6.6	9.2	---	---
12	---	---	---	---	---	Rm 3 Withdrawal	10.0

TABLE 11E

JORDAN RIVER WATER QUALITY MODEL

NON-POINT SOURCE DATA FOR APRIL, 1974 MODEL VERIFICATION

Reach	River Mile		Flow	Temperature	Dissolved	Biochemical Oxygen
	From	To	cfs	°F	Oxygen, mg/l	Demand, mg/l
1[a]	33.5	30.0	0.1	41.0	10.0	6.5
2	30.0	27.0	0.1	41.0	10.0	6.5
3	27.0	26.0	0.1	41.0	10.0	6.5
4	26.0	25.0	0.1	41.0	10.0	6.5
5	25.0	24.0	25.0	41.0	10.0	6.5
6	24.0	20.5	0.1	41.0	10.0	6.5
7	20.5	18.0	0.1	41.0	10.0	6.5
8	18.0	16.0	0.1	41.0	10.0	6.5
9	16.0	13.0	0.1	41.0	10.0	6.5
10	13.0	6.0	0.1	41.0	10.0	6.5
11[b]	6.0	0.0	0.0	41.0	10.0	6.5

a - Begins at Utah Lake

b - Terminates at Great Salt Lake

FIGURE 13A EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES DAVIS COUNTY

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE 7	
ECONOMICS	CAPITAL COST $ x 10^6		19.28		6.62		16.81		12.52		18.86		14.58		19.73	
	TOTAL ANNUAL COST $ x 10^6		4.83		2.73		3.89		3.22		3.87		3.15		3.94	
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	8	72	7	63	7	63	6	54	8	72	6	54	8	72
	WILDLIFE AND WILDLIFE HABITATS	5	6	30	5	25	5	25	5	25	5	25	5	25	5	25
	WATER QUALITY	10	8	80	6	60	8	80	7	70	8	80	7	70	8	80
	AESTHETICS	7	6	42	5	35	7	49	6	42	7	49	6	42	8	56
	RECREATION	7	5	35	5	35	5	35	5	35	5	35	5	35	6	42
	OVERALL RATING			259		218		252		226		261		226		275
FEASIBILITY	FINANCIAL FEASIBILITY	9	6	54	10	90	6	54	8	72	6	54	7	63	6	54
	PROGRAM IMPLEMENTATION	9	10	90	10	90	10	90	10	90	8	72	8	72	8	72
	PROGRAM ACCEPTABILITY	8	8	64	7	56	7	56	6	48	7	56	6	48	7	56
	OVERALL RATING			208		236		200		210		182		183		182
EFFECTIVENESS	EFFECTIVENESS	9	5	45	3	27	7	63	5	45	6	54	5	45	7	63
	SYSTEM RELIABILITY	8	3	24	5	40	4	32	5	40	6	48	5	40	6	48
	SYSTEM FLEXIBILITY	7	3	21	4	28	4	28	4	28	4	28	5	35	5	35
	RECLAMATION POTENTIAL	6	5	30	5	30	4	24	4	24	5	30	4	24	6	36
	OVERALL RATING			120		125		147		137		160		144		182

FIGURE 13A EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES DAVIS COUNTY (cont'd.)

UNWEIGHTED PARAMETERS			ALTERNATIVE 8		ALTERNATIVE 9		ALTERNATIVE 10		ALTERNATIVE 11		ALTERNATIVE 12		ALTERNATIVE 13		ALTERNATIVE	
ECONOMICS	CAPITAL COST $ x 10^6		16.10		22.13		18.31		14.84		22.18		20.88			
	TOTAL ANNUAL COST $ x 10^6		3.35		3.58		3.75		3.17		3.84		3.65			
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	7	63	8	72	8	72	7	63	8	72	8	72		
	WILDLIFE AND WILDLIFE HABITATS	5	5	25	4	20	5	25	5	25	4	20	4	20		
	WATER QUALITY	10	7	70	9	90	8	80	7	70	9	90	9	90		
	AESTHETICS	7	7	49	8	56	8	56	7	49	9	63	9	63		
	RECREATION	7	5	35	6	42	6	42	6	42	6	42	6	42		
	OVERALL RATING			242		280		275		249		287		287		
FEASIBILITY	FINANCIAL FEASIBILITY	9	6	54	5	45	6	54	7	63	5	45	5	45		
	PROGRAM IMPLEMENTATION	9	8	72	6	54	8	72	8	72	6	54	6	54		
	PROGRAM ACCEPTABILITY	8	6	48	6	48	7	56	6	48	8	64	7	56		
	OVERALL RATING			174		147		182		183		163		155		
EFFECTIVENESS	EFFECTIVENESS	9	6	54	9	81	7	63	5	45	8	72	7	63		
	SYSTEM RELIABILITY	8	7	56	8	64	6	48	7	56	7	56	7	56		
	SYSTEM FLEXIBILITY	7	6	42	6	42	6	42	7	49	6	42	6	42		
	RECLAMATION POTENTIAL	6	5	30	5	30	6	36	5	30	7	42	6	36		
	OVERALL RATING			182		217		189		180		212		197		

FIGURE 13B EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES SALT LAKE COUNTY

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE 7	
ECONOMICS	CAPITAL COST $ x 10^6		66.33		32.41		66.69		38.56		64.04		62.90		76.75	
	TOTAL ANNUAL COST $ x 10^6		13.58		7.80		12.11		7.46		11.33		10.21		10.18	
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	7	63	6	54	7	63	6	54	8	72	8	72	10	90
	WILDLIFE AND WILDLIFE HABITATS	5	6	30	5	25	6	30	5	25	6	30	6	30	8	40
	WATER QUALITY	10	7	70	6	60	7	70	6	60	8	80	8	80	9	90
	AESTHETICS	7	5	35	4	28	6	42	5	35	7	49	8	56	9	63
	RECREATION	7	5	35	4	28	5	35	4	28	6	42	6	42	8	56
	OVERALL RATING			233		195		240		202		273		280		339
FEASIBILITY	FINANCIAL FEASIBILITY	9	8	72	10	90	8	72	10	90	8	72	8	72	7	63
	PROGRAM IMPLEMENTATION	9	10	90	10	90	9	81	9	81	7	63	5	45	3	27
	PROGRAM ACCEPTABILITY	8	6	48	5	40	7	56	6	48	8	64	6	48	8	64
	OVERALL RATING			210		220		209		219		199		165		154
EFFECTIVENESS	EFFECTIVENESS	9	6	54	5	45	7	63	6	54	8	72	9	81	9	81
	SYSTEM RELIABILITY	8	3	24	5	40	4	32	5	40	5	40	6	48	7	56
	SYSTEM FLEXIBILITY	7	4	28	5	35	5	35	6	42	6	42	7	49	7	49
	RECLAMATION POTENTIAL	6	4	24	4	24	5	30	5	30	6	36	7	42	7	42
	OVERALL RATING			130		144		160		166		190		220		228

FIGURE 13B EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES SALT LAKE COUNTY(cont'd)

UNWEIGHTED PARAMETERS			ALTERNATIVE 8		ALTERNATIVE 9		ALTERNATIVE 10		ALTERNATIVE 11		ALTERNATIVE 12		ALTERNATIVE		ALTERNATIVE	
ECONOMICS	CAPITAL COST $ x 10^6		85.57		40.75		41.25		59.99		55.00					
	TOTAL ANNUAL COST $ x 10^6		9.28		7.15		6.72		7.33		7.78					
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	10	90	7	63	7	63	9	81	7	63				
	WILDLIFE AND WILDLIFE HABITATS	5	6	30	6	30	6	30	8	40	6	30				
	WATER QUALITY	10	10	100	7	70	7	70	8	80	7	70				
	AESTHETICS	7	9	63	6	42	7	49	9	63	7	49				
	RECREATION	7	8	56	5	35	5	35	8	56	5	35				
	OVERALL RATING			339		240		247		320		247				
FEASIBILITY	FINANCIAL FEASIBILITY	9	6	54	9	81	9	81	8	72	8	72				
	PROGRAM IMPLEMENTATION	9	3	27	7	63	5	45	3	27	5	45				
	PROGRAM ACCEPTABILITY	8	6	48	7	56	7	56	7	56	6	48				
	OVERALL RATING			129		200		182		155		165				
EFFECTIVENESS	EFFECTIVENESS	9	10	90	7	63	8	72	8	72	7	63				
	SYSTEM RELIABILITY	8	9	72	6	48	7	56	8	64	8	64				
	SYSTEM FLEXIBILITY	7	6	42	6	42	7	49	7	49	7	49				
	RECLAMATION POTENTIAL	6	6	36	5	30	6	36	6	36	5	30				
	OVERALL RATING			240		183		213		221		206				

FIGURE 13C EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES NORTH UTAH COUNTY

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE 7	
ECONOMICS	CAPITAL COST $ x 10^6		9.49		4.18		7.61		9.22		12.36		7.94		9.76	
	TOTAL ANNUAL COST $ x 10^6		2.15		1.26		1.50		2.02		2.14		1.40		1.53	
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	7	63	6	54	8	72	7	63	8	72	7	63	8	72
	WILDLIFE AND WILDLIFE HABITATS	5	7	35	6	30	5	25	5	25	7	35	6	30	5	25
	WATER QUALITY	10	7	70	6	60	8	80	7	70	8	80	6	60	8	80
	AESTHETICS	7	6	42	5	35	6	42	6	42	8	56	6	42	8	56
	RECREATION	7	5	35	5	35	5	35	5	35	5	35	5	35	5	35
	OVERALL RATING			245		214		254		235		278		230		268
FEASIBILITY	FINANCIAL FEASIBILITY	9	8	72	10	90	9	81	8	72	7	63	9	81	8	72
	PROGRAM IMPLEMENTATION	9	10	90	10	90	10	90	10	90	8	72	8	72	8	72
	PROGRAM ACCEPTABILITY	8	7	56	6	48	6	48	7	56	8	64	7	56	6	48
	OVERALL RATING			218		228		219		218		199		209		192
EFFECTIVENESS	EFFECTIVENESS	9	5	45	4	36	8	72	6	54	7	63	6	54	8	72
	SYSTEM RELIABILITY	8	3	24	5	40	8	64	4	32	6	48	7	56	7	56
	SYSTEM FLEXIBILITY	7	3	21	4	28	4	28	3	21	6	42	6	42	6	42
	RECLAMATION POTENTIAL	6	5	30	4	24	4	24	5	30	6	36	5	30	5	30
	OVERALL RATING			120		128		188		137		189		182		200

FIGURE 13C EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES NORTH UTAH COUNTY(cont'd.)

UNWEIGHTED PARAMETERS			ALTERNATIVE 8		ALTERNATIVE 9		ALTERNATIVE 10		ALTERNATIVE 11		ALTERNATIVE 12		ALTERNATIVE		ALTERNATIVE	
ECONOMICS	CAPITAL COST $ x 10^6		9.75		12.75		29.22		30.72		24.86					
	TOTAL ANNUAL COST $ x 10^6		1.30		1.81		3.45		4.18		3.12					
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	8	72	8	72	8	72	8	72	7	63				
	WILDLIFE AND WILDLIFE HABITATS	5	5	25	6	30	6	30	8	40	7	35				
	WATER QUALITY	10	8	80	8	80	8	80	8	80	7	70				
	AESTHETICS	7	8	56	8	56	9	63	9	63	8	56				
	RECREATION	7	5	35	5	35	5	35	5	35	5	35				
	OVERALL RATING			268		273		280		290		259				
FEASIBILITY	FINANCIAL FEASIBILITY	9	9	81	7	63	6	54	5	45	6	54				
	PROGRAM IMPLEMENTATION	9	6	54	6	54	4	36	4	36	4	36				
	PROGRAM ACCEPTABILITY	8	6	48	7	56	6	48	7	56	6	48				
	OVERALL RATING			183		173		138		137		138				
EFFECTIVENESS	EFFECTIVENESS	9	9	81	7	63	9	81	7	63	6	54				
	SYSTEM RELIABILITY	8	7	56	6	48	8	64	7	56	8	64				
	SYSTEM FLEXIBILITY	7	7	49	7	49	7	49	7	49	7	49				
	RECLAMATION POTENTIAL	6	7	42	8	48	8	48	9	54	8	48				
	OVERALL RATING			228		203		242		222		215				

FIGURE 13D EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES CENTRAL UTAH COUNTY

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE 7	
ECONOMICS	CAPITAL COST $ x 10^6		17.05		8.37		17.38		8.91		18.50		11.66		15.37	
	TOTAL ANNUAL COST $ x 10^6		3.66		2.20		3.65		2.23		3.36		2.29		2.60	
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	7	63	6	54	7	63	6	54	8	72	7	63	7	63
	WILDLIFE AND WILDLIFE HABITATS	5	7	35	6	30	7	35	6	30	7	35	6	30	6	30
	WATER QUALITY	10	7	70	6	60	7	70	6	60	8	80	6	60	8	80
	AESTHETICS	7	6	42	5	35	6	42	6	42	7	49	6	42	7	49
	RECREATION	7	5	35	5	35	5	35	5	35	5	35	5	35	5	35
	OVERALL RATING			245		214		245		221		271		230		257
FEASIBILITY	FINANCIAL FEASIBILITY	9	6	54	10	90	6	54	10	90	6	54	9	81	7	63
	PROGRAM IMPLEMENTATION	9	10	90	10	90	9	81	9	81	7	63	7	63	7	63
	PROGRAM ACCEPTABILITY	8	7	56	6	48	7	56	6	48	7	56	6	48	5	40
	OVERALL RATING			200		228		191		219		173		192		166
EFFECTIVENESS	EFFECTIVENESS	9	5	45	4	36	6	54	4	36	6	54	4	36	5	45
	SYSTEM RELIABILITY	8	3	24	4	32	4	32	4	32	5	40	6	48	7	56
	SYSTEM FLEXIBILITY	7	3	21	4	28	4	28	4	28	5	35	5	35	6	42
	RECLAMATION POTENTIAL	6	4	24	3	18	4	24	3	18	6	36	5	30	5	30
	OVERALL RATING			114		114		138		114		165		149		173

FIGURE 13D EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES CENTRAL UTAH COUNTY (cont'd.)

UNWEIGHTED PARAMETERS			ALTERNATIVE 8		ALTERNATIVE 9		ALTERNATIVE 10		ALTERNATIVE 11		ALTERNATIVE 12		ALTERNATIVE		ALTERNATIVE	
ECONOMICS	CAPITAL COST $ x 10^6		16.58		13.92		17.84		20.17		14.12					
	TOTAL ANNUAL COST $ x 10^6		2.91		2.47		2.36		3.06		2.05					
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	8	72	7	63	9	81	9	81	8	72				
	WILDLIFE AND WILDLIFE HABITATS	5	7	35	7	35	6	42	8	40	8	40				
	WATER QUALITY	10	8	80	7	70	9	90	9	90	7	70				
	AESTHETICS	7	7	49	7	49	8	56	8	56	7	49				
	RECREATION	7	5	35	5	35	6	42	6	42	6	42				
	OVERALL RATING			271		252		299		309		273				
FEASIBILITY	FINANCIAL FEASIBILITY	9	7	63	8	72	6	54	5	45	8	72				
	PROGRAM IMPLEMENTATION	9	8	72	8	72	5	45	5	45	5	45				
	PROGRAM ACCEPTABILITY	8	5	40	5	40	5	40	7	56	6	48				
	OVERALL RATING			175		184		139		146		165				
EFFECTIVENESS	EFFECTIVENESS	9	6	54	5	45	8	72	7	63	6	54				
	SYSTEM RELIABILITY	8	6	48	7	56	8	64	6	48	7	56				
	SYSTEM FLEXIBILITY	7	5	35	5	35	6	42	6	42	6	42				
	RECLAMATION POTENTIAL	6	6	36	6	36	6	36	8	48	7	42				
	OVERALL RATING			173		172		214		201		194				

FIGURE 13E EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES OVERALL UTAH/WASATCH COUNTIES

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE	
ECONOMICS	CAPITAL COST	$ x 10^6	42.03		34.17		38.71		51.41		43.24		47.79			
	TOTAL ANNUAL COST	$ x 10^6	5.36		4.08		4.44		6.14		4.73		5.10			
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	8	72	7	63	9	81	8	72	7	63	9	81		
	WILDLIFE AND WILDLIFE HABITATS	5	8	40	7	35	6	30	8	40	7	35	6	30		
	WATER QUALITY	10	7	70	6	60	9	90	9	90	8	80	9	90		
	AESTHETICS	7	7	49	6	42	7	49	7	49	6	42	7	49		
	RECREATION	7	6	42	6	42	7	49	7	49	6	42	7	49		
	OVERALL RATING			273		242		299		300		262		299		
FEASIBILITY	FINANCIAL FEASIBILITY	9	6	54	7	63	7	63	6	54	6	54	6	54		
	PROGRAM IMPLEMENTATION	9	3	27	3	27	3	27	2	18	2	18	2	18		
	PROGRAM ACCEPTABILITY	8	6	48	5	40	5	40	7	56	6	48	6	48		
	OVERALL RATING			129		130		130		128		120		120		
EFFECTIVENESS	EFFECTIVENESS	9	6	54	5	45	8	72	6	54	5	45	8	72		
	SYSTEM RELIABILITY	8	6	48	7	56	7	56	6	48	7	56	7	56		
	SYSTEM FLEXIBILITY	7	5	35	5	35	5	35	4	28	4	28	4	28		
	RECLAMATION POTENTIAL	6	8	48	7	42	7	42	8	48	7	42	7	42		
	OVERALL RATING			185		178		205		178		171		198		

FIGURE 13F EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES
WASATCH COUNTY

UNWEIGHTED PARAMETERS			ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3		ALTERNATIVE 4		ALTERNATIVE 5		ALTERNATIVE 6		ALTERNATIVE	
ECONOMICS	CAPITAL COST $ x 10^6		3.67		2.49		3.83		2.77		5.14		10.30			
	TOTAL ANNUAL COST $ x 10^6		0.68		0.45		0.51		0.38		0.73		0.92			
WEIGHTED PARAMETERS		**WEIGHT**	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING	RATING	WEIGHTED RATING
ENVIRONMENTAL FACTORS	FISHERIES AND AQUATIC HABITATS	9	8	72	7	63	8	72	8	72	10	90	10	90		
	WILDLIFE AND WILDLIFE HABITATS	5	7	35	7	35	6	30	5	25	8	40	7	35		
	WATER QUALITY	10	8	80	7	70	7	70	9	90	9	90	10	100		
	AESTHETICS	7	6	42	6	42	8	56	4	28	8	56	10	70		
	RECREATION	7	5	35	5	35	5	35	4	28	5	35	5	35		
	OVERALL RATING			264		245		263		243		311		330		
FEASIBILITY	FINANCIAL FEASIBILITY	9	5	45	7	63	5	45	6	54	4	36	1	9		
	PROGRAM IMPLEMENTATION	9	9	81	9	81	7	63	6	54	5	45	4	36		
	PROGRAM ACCEPTABILITY	8	7	56	6	48	6	48	5	40	6	48	5	40		
	OVERALL RATING			182		192		156		148		129		85		
EFFECTIVENESS	EFFECTIVENESS	9	5	45	4	36	5	45	8	72	9	81	9	81		
	SYSTEM RELIABILITY	8	3	24	5	40	7	56	6	48	5	40	8	64		
	SYSTEM FLEXIBILITY	7	3	21	4	28	5	35	4	28	7	49	2	14		
	RECLAMATION POTENTIAL	6	6	36	6	36	6	36	3	18	8	48	3	18		
	OVERALL RATING			126		140		172		166		218		177		

TABLE 14A

STATE OF UTAH

WASTEWATER TREATMENT PROJECT PRIORITY LIST - FY1975

(CONDENSED TO UTAH LAKE-JORDAN RIVER BASIN PROJECTS)

PROJECT	PRIORITY EVALUATION				PROJECT 4/ STEP	DESCRIPTION OF PROJECT NEEDS
	POLLUTION CONTROL NEED	DRAINAGE BASIN	SPECIAL CONSIDERATIONS	PRIORITY NUMBER		
1. Lindon	120	20		140	1,2,& 3	New collection & Outfall to another entity for treatment
2. North Davis County S. D.	120	20		140	1,2,& 3	Mutton Hollow Sewer
15. Lakepoint	120	10		130	1,2,& 3	New collection system
17. Heber City 2/	95	20		115	1,2,& 3	Enlarge secondary & addition of level III
20. Granger-Hunter 1/	60	20	30	110	1,2,& 3	Enlarge secondary treatment only
23. Eureka	95	14		109	1 & 2	New collection, secondary & level III treatment
32. American Fork 2/	70	20		90	1 & 2	Expand secondary & add level III treatment
33. Granger-Hunter 2/	70	20		90	1 & 2	Enlarge secondary treatment capacity and provide level III treatment
34. Lehi 2/	70	20		90	1 & 2	Enlarge collection system, enlarge secondary treatment and add level III
35. Murray 2/	70	20		90	1 & 2	Enlarge secondary & add level III treatment
36. Pleasant Grove 2/	70	20		90	1 & 2	Enlarge secondary & add level III treatment
37. Provo 2/	70	20		90	1 & 2	Enlarge secondary & add level III treatment
38. Salt Lake County Cottonwood	70	20		90	1 & 2	Enlarge secondary & add level III treatment
39. Sandy 2/	70	20		90	1 & 2	Enlarge secondary & add level III treatment
40. Spanish Fork 2/	70	20		90	1 & 2	Enlarge secondary & add level III treatment
41. Chesterfield Improvement District	70	20		90	1,2,& 3	Interceptor line to SLC system
52. Magna	60	20		80		Add level III treatment
53. Midvale 2/	60	20		80		Add level III treatment
54. Midway 2/	60	20		80		Add level III treatment
55. Nephi	60	20		80		Add level III treatment
56. Orem 2/	60	20		80		Add level III treatment
57. Payson 2/	50	20		80		Add level III treatment
58. Salem 2/	60	20		80		Add level III treatment
59. Salt Lake City 2/	60	20		80		Add level III treatment
60. Salt Lake City S.I.D. #1 2/	60	20		80		Add level III treatment
61. South Salt Lake 2/	60	20		80		Add level III treatment
62. Springville 2/	60	20		80		Add level III treatment
63. Central Davis 2/	60	18		78		Add level III treatment
67. North Davis 2/	60	18		78		Add level III treatment
70. South Davis North Plant 2/	60	18		78		Add level III treatment
71. South Davis South Plant 2/	60	18		78		Add level III treatment

FOOTNOTES

1. Extra points given because the project was certified for construction under previous regulations, but was not funded prior to FY1973.
2. A potential for regionalization exists in this area; this project may be merged with others under a regionalized plan depending upon planning now in progress.
3. A pollution control need exists in this area, but the legal entity to sponsor the project has not yet been formed.
4. STEP 1: Facilities Planning (engineering study.) STEP 2: Detailed Design. STEP 3: Construction. Steps noted are to be funded in FY75, with additional funding, if required, from following fiscal years. If left blank, funding is not anticipated during FY 1975.
5. Energy resource development growth impact.

NOTE: Description of project need includes only the presently known major need; additional items may be included in a project if appropriate. For example, those projects showing a need for addition of level III treatment may also include enlargement of the secondary treatment facilities as determined in the final facilities planning process.

TABLE 15A
Part 1a

SUMMARY OF LIMITATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE GREAT LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Product or Process	Permit Expiration Date	Effective Date	Discharge Outfall No.	Receiving Body of Water	Discharge Rate - MGD	Temp. °F	pH Units	BOD$_5$ (mg/l)	COD (mg/l)	Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Turbidity (JTU)
UT-0000736	Crown Refining Co.	Petroleum Refining	5/30/76	11/14/73	001	A-1 Basin	1.65	80	6.5 - 8.5	•	R	•	•	•
UT-075-0TD-000221	Phillips Petroleum Co.	Petroleum Refining	7/01/76	4/22/73	001	Evans Canal	2.50	R	6.5 - 8.5	R	R	•	•	•
				12/31/73	001	Evans Canal	2.50	•	6.5 - 8.5	12 25	—	•	•	—
UT-0000817	Husky Oil Co. of Delaware	Petroleum Refining	9/30/76	1/09/74	001	—	E.D.	—	—	—	—	—	—	—
UT-0000175	Chevron Oil Company	Petroleum Refining	7/01/76	12/31/73	001	S.L. Sewage Canal	3.00	•	6.5 - 8.5	•	—	R	•	•
				4/01/74	001	S.L. Sewage Canal	3.00	•	6.5 - 8.5	20		•	•	•
				12/31/74	001	S.L. Sewage Canal	3.00	•	6.5 - 8.5	25	35	•	•	•
					001	A-1 Basin	0.00	•	6.5 - 8.5	•	—	•	•	•
UT-0000191	Caribou-Four Corners Refinery	Petroleum Refining		1/01/74	001	A-1 Basin	0.85	•	6.5 - 8.5	•	—	•	•	•
				4/01/74	001	A-1 Basin	0.85	•	6.5 - 8.5	25	—	•	•	•
UT-0000671	North Salt Lake Livestock Co.	Feedlot	6/30/77	7/12/74	001	Beaumont Ditch	E.D.	•	6.5 - 8.5	—	—	•	•	—
				7/01/77	001	Beaumont Ditch	E.D.	•		•	—	•	•	•
UT-0021474	Lyon Steel Company	Galvanized Steel Fabrication	12/31/76	1/01/74	001	Beaumont Ditch	0.000	•	R	•	—	•	•	•
UT-0022501	Orem, Livestock	Feedlot	6/30/79	7/01/77	001	Hope Canal	E.D.	•	6.5 - 9.0	•	—	•	•	•
UT-0021741	North Davis Sewer Dist.	Sewage Treatment	6/01/76	3/15/74	001	Beaumont Ditch	10.00	R	6.5 - 8.5	25	—	2000	R	•
				9/15/74	001	Beaumont Ditch	E.D.	—	—	—	—	—	—	—
				7/01/77	001	Beaumont Ditch	10.00	•		•	—	•	200 000	•
UT-0020974	Central Davis Sewer Dist.	Sewage Treatment	1/01/76	2/23/74	001	Deer Creek	6.0	R	6.5 - 8.5	25	—	2000	—	•
				7/01/77	001	Deer Creek	6.0	•	6.5 - 8.5	•	—	•	200 000	•
UT-0021636	South Davis County S.I.D. North Treatment Plant	Sewage Treatment	1/01/76	1/23/74	001	Evans Canal	4.36	•	6.5 - 8.5	25		2000	200 000	•
				7/01/77	001	Evans Canal	4.36	•	6.5 - 8.5	•	—	•	•	•
UT-0021628	South Davis County S.I.D.	Sewage Treatment	1/01/76	11/23/73	001	Jordan River	1.50	•	6.5 - 8.5	25	—	2000	200 000	•
				7/01/77	001	Jordan River	1.50	•	6.5 - 8.5	•	—	•	•	•
UT-075-0TD-3-000020	Amerlean Oil Company	Petroleum Refining	7/01/76	4/23/73	001	S.L. Sewage Canal	3.00	R	6.5 - 8.5	25	R	R	•	•
				8/01/74	001	S.L. Sewage Canal	3.00	R	6.5 - 8.5	5	100	•	•	•
UT-075-0TD-3-000114	Utah Div. of Wildlife Resources	Fish Hatchery	7/01/75	8/30/73	001	Spring Creek	0.76	•	6.5 - 8.5	3	—	•	•	•
				7/01/77	001	Spring Creek	0.76	•	6.5 - 8.5	2	—	•	•	•
UT-075-0TD-3-000190	Utah Div. of Wildlife Resources	Fish Hatchery	7/01/75	8/30/73	001	Mill Creek	1.20	•	6.5 - 8.5	15	—	•	•	•
				7/01/77	001	Mill Creek	1.20	•	6.5 - 8.5	7	—	•	•	•
UT-0000701	Hunt, Div. of Varian	Electronics Manufacturing	7/01/77	6/01/74	001	U-7 Ditch	0.50	•	6.5 - 8.5	•	—	•	•	•
				1/01/75	001	U-7 Ditch	0.50	•	6.5 - 8.5	•	—	•	•	•
UT-0021237	Sperry, Vadeo	Electronics Manufacturing	6/30/76		001	Brigham Canal	E.D.	•	6.5 - 8.5	30	R	•	•	•
UT-0000531	Metals Processing	Metal Processing	7/01/76	1/01/74	001	Storm Sewer	0.00	R	6.5 - 8.5	60	60	5000	•	•
UT-0000477	Stauffer Chemical Co.	Organic Fertilizer	7/01/78	6/01/73	001	U-7 Ditch	1000 gpd	60de F/16a	6.5 - 8.5	30	25	200		
				6/04/75	001	Vest Ditch	300 gpd	30de F/16	6.5 - 8.5					

Key

• = Discharge must meet Utah State Water Quality Standards.
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NA = Value Not Given.
ND = No Discharge Allowed.
R = Monitoring required of parameter.

TABLE 15A
Part 1b

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASIN

Permit No.	Permittee	Discharge Outfall No.	Suspended Solids (mg/l)	Total Dissolved Solids (mg/l)	Oil & Grease (mg/l)	Dissolved Oxygen - D O (mg/l)	Chloride (Cl) (mg/l)	Residual Chlorine (Cl") (mg/l)	Fluride (F) (mg/l)	Nitrate (NO_3) Nitrite (NO_2) (mg/l)	Phosphate (PO_4) (mg/l)	Sulfate (SO_4) (mg/l)	Sulfide (H_2S) (mg/l)	Phenol (C_6H_5OH) (mg/l)
Ut-0000736	Crown Refining Company	001	---	•	•	•	•	---	•	•	---	•	•	•
Ut-075-0YD-000211	Phillips Petroleum Company	001	•	•	•	•	•	---	•	•	---	•	•	•
		002	30	•	10	•	•	---	•	•	---	•	0.1	0.02
Ut-0000027	Husky Oil Company of Delaware	---	---	---	---	•	•	---	•	•	---	---	•	•
Ut-0000175	Chevron Oil Company	001	30	•	•	•	•	---	•	•	---	•	0.2	0.02
		002	---	•	•	•	•	---	•	•	---	•	---	---
		003	---	•	•	•	•	---	•	•	---	•	---	---
Ut-0000485	Caribou Four-Corners Refinery	001	30	•	•	•	•	---	•	•	---	•	1.4	0.0
		002	•	•	•	•	•	---	•	•	---	•	---	•
		003	•	•	10	•	•	---	•	•	---	•	---	•
Ut-0000621	North Salt Lake Limestone Co.	001	---	---	---	---	---	---	---	---	---	•	---	---
		002	•	•	•	•	•	---	•	•	---	---	---	---
Ut-0021474	Kyro Steel Company	001	---	---	---	---	---	---	---	---	---	•	---	---
Ut-0022381	Crane Livestock	001	•	•	•	•	•	---	•	•	---	---	---	---
Ut-0001741	North Davis Sewer District	001	30-45	•	10	•	•	0.5	•	•	---	•	---	•
		002	•	•	•	•	•	---	•	•	---	•	---	•
		003	•	•	•	•	•	---	•	•	---	•	---	•
Ut-0020974	Central Davis Sewer District	001	30-45	•	10	•	•	0.5	•	•	---	•	---	•
Ut-0021636	South Davis County Sewerage Improvement District, North Davis Treatment Plant	001	•	•	5	•	•	1.0 0.5	•	•	---	•	•	•
Ut-0021628	South Davis County Sewerage Improvement District	001	•	•	5	•	•	1.0 0.5	•	•	---	•	•	•
Ut-075-0YD-3-000030	American Oil Company	001	30	5	•	•	•	---	•	•	---	•	2.5	•
		002	•	•	10	•	•	---	•	•	---	•	0.05	0.00
Ut-075-0YD-3-000116	Utah State Division of Wildlife Resources	001	•	•	•	•	•	---	•	•	---	•	---	•
		002	1	•	•	•	•	---	•	•	---	•	---	•
Ut-075-0YD-3-000130	Utah State Division of Wildlife Resources	001	46	•	•	•	•	---	•	•	---	•	---	•
		002	•	•	•	•	•	---	•	•	---	•	---	•
Ut-0000701	Elmer, Division of Varian	001	30	•	10	•	•	---	•	•	---	•	---	•
		002	•	•	•	•	•	---	•	•	---	•	---	•
Ut-0020087	Quarry, Hebron	001	•	•	•	•	•	---	•	•	---	•	---	•
Ut-0000515	Metals Processing	001	30	•	•	•	•	---	•	30	---	•	---	0.1
Ut-0000477	Stauffer Chemical Company	001	1	2000 10500	•	•	540	---	415 980	•	980	•	---	•

TABLE 15A
Part 1c

SUMMARY OF LIMITATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Aluminum (Al) (ug/l)	Arsenic (As) (ug/l)	Barium (Ba) (ug/l)	Boron (B) (mg/l)	Cadmium (Cd) (ug/l)	Total Chromium (Cr) (ug/l)	Chromium (Cr^{+6}) (ug/l)	Copper (Cu) (ug/l)	Cyanide (Cn) (ug/l)	Iron (Fe) (mg/l)	Lead (Pb) (ug/l)
UT-0000736	Crown Refining Company	001	•	•	•	---	•	•	•	•	•	•	•
UT-075-0YR-000211	Phillips Petroleum Company	001	•	•	•	---	•	0.09	0.1	•	•	•	•
		001	•	•	---	---	---	---	-	-	-	-	-
UT-0000027	Husky Oil Co. of Delaware	---	---	---	---	---	---	---	---	---	---	---	---
UT-0000175	Chevron Oil Company	001	•	•	•	---	•	0.09	0.01	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-0000655	Caribou-Four Corners Refinery	001	•	•	•	---	•	0.07	•	•	•	•	•
		001	•	•	•	---	•	•	0.01	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
		001	---	---	---	---	---	---	-	-	-	-	-
UT-0000621	North Salt Lake Livestock Company	001	•	•	•	---	•	•	•	•	•	M	-
		001	---	---	---	---	---	---	-	-	-	-	-
UT-0021474	Syro Steel Company	001	---	---	---	---	---	---	•	•	•	•	•
UT-0022501	Green Livestock	---	•	•	•	---	•	•	•	M	•	M	•
UT-0001741	North Davis Sewer District	001	•	•	•	---	N	N	•	•	•	•	•
		002	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-0020974	Central Davis Sewer District	001	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-0021636	South Davis County S.I.D. North Treatment Plant	001	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	M	•	•	•	•
UT-0021628	South Davis County S.I.D. South Treatment Plant	001	•	•	M	---	•	0.12	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-075-0YR-2-000020	American Oil Company	001	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-075-0YR-2-000116	Utah Div. of Wildlife Resources	001	•	•	•	---	•	•	•	•	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-075-0YR-2-000190	Utah Div. of Wildlife Resources	001	•	•	•	---	•	•	•	1.0	•	•	•
		001	•	•	•	---	•	•	•	•	•	•	•
UT-0000701	EIMAC, Div. of Varian	001	•	•	•	---	•	•	•	•	•	•	•
UT-0020397	Sperry, Univac	001	•	0.2	1.0	---	0.1	0.1	0.1	1.0	•	0.5	0.1
UT-0000531	Metals Processing	001	•	•	•	---	570	80	•	400	•	2200	32
								440		330		8800	220
UT-0000477	Stauffer Chemical Company	001	2200	360	•	---	•		•		•		
		0002	7700	365									

KEY
• = Discharge must meet Utah State Water Quality Standards.
--- = Discharge must meet U. S. Environmental Protection Agency Limitations.
NG = Value Not Given.
ND = No Discharge Allowed.
M = Monitoring required of permittees.

TABLE 15A
Part 1a

SUMMARY OF LIMITATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Manganese (Mn) (mg/l)	Mercury (Hg) (mg/l)	Molybdenum (Mo) (mg/l)	Nickel (Ni) (mg/l)	Selenium (Se) (mg/l)	Silver (Ag) (mg/l)	Zinc (Zn) (mg/l)	Ammonia Nitrogen (NH_3-N) (mg/l)
UT-0000736	Crown Refining Company	001	•	—	—	—	•	•	•	—
UT-075-DYR-000711	Phillips Petroleum Company	001	•	—	—	—	•	•	•	N
		001	•	—	—	—	•	•	•	7.2
UT-0000027	Husky Oil Co. of Delaware	—	—	—	—	—	—	—	—	—
UT-0000175	Chevron Oil Company	001	•	—	—	—	•	•	•	7.5
		001	•	—	—	—	•	•	•	—
UT-0000655	Caribou-Four Corners Refinery	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	10.0
		001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-0000621	North Salt Lake Livestock Co.	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-0021474	Syro Steel Company	001	—	—	—	—	—	—	N	—
UT-0022501	Green Livestock	—	—	—	—	—	•	•	•	—
UT-0001741	North Davis Sewer District	001	•	N	—	N	•	•	•	—
		002	•	—	—	—	•	•	•	—
UT-0020974	Central Davis Sewer District	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-0021636	South Davis County Sewer Improvement Dist. North treatment plant	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	N
UT-0021628	South Davis County Sewer Improvement Dist. South Treatment Plant	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-075-DYR-2-000020	American Oil Company	001	•	—	—	—	•	•	•	21.0
		001	•	—	—	—	•	•	•	6.6
UT-075-DYR-2-000116	Utah Division of Wildlife Resources	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-075-DYR-2-000190	Utah Division of Wildlife Resources	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-0000701	FMAC, Division of Varian	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	—
UT-0020397	Sperry, Univac	001	•	—	—	—	•	•	•	—
UT-0000531	Metals Processing	001	1.0	—	—	1.0	•	•	1.0	10.0
UT-0000477	Stauffer Chemical Company	001	350	2	—	35	•	•	500	14.0
		002	880	—	—	320	•	•	•	11.0

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N = Monitoring required of permittee.

TABLE 15A
Part 2a

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Product or Process	Permit Expiration Date	Effective Date	Discharge Outfall No.	Receiving Body of Water	Discharge Rate - MGD	Temp °F	pH Units	BOD (mg/l)	COD (mg/l)	Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Turbidity (JTU)
						C-7 Ditch								
UT-0000051	Kennecott Copper Corporation	Copper Refining	1/01/76	11/30/73	001	C-7 Ditch	7.60	M	4.1 - 8.0	53.0	86.2	•	•	•
					002	C-7 Ditch	43.20	M	7.1 - 9.0	78.0	95	•	•	•
					003	C-7 Ditch	7.90	M	5.4 -11.8	37.7	98	•	•	•
					004	C-7 Ditch	0.40	M	2.2 - 9.0	97.6	115	•	•	•
					005	C-7 Ditch	3.60	M	0.2 - 6.4	153.0	390	•	•	•
				6/01/74	002	C-7 Ditch	22.20	•	6.5 - 9.0	•	30	•	•	•
					001,003,004,005	—	N.D.	—	—	—	—	—	—	—
					006	C-7 Ditch	26.15	M	6.5 - 9.0	8.0	12	•	•	•
				7/01/77	002	C-7 Ditch	•	•	6.5 - 9.0	M	30	•	•	•
					006	C-7 Ditch	•	•	6.5 - 9.0	8.0	12	•	•	•
UT-075-0YB-2-000269	Concrete Products Div. of Gibbons and Reed Co.	Sand and Gravel	7/01/76	6/03/73	001	S.L. Sewage Canal	0.75	•	6.5 - 8.5	•	—	•	•	M
				10/01/73	001	S.L. Sewage Canal	•	•	6.5 - 8.5	•	—	•	•	M
UT-075-0YB-2-000227	Key Industries, Inc.	Ready Mix Concrete	8/30/76	9/30/76	001	B. C. Creek	0.60	•	6.5 - 8.5	•	—	•	•	M
UT-075-0YB-2-000260	Utah Sand and Gravel	Ready Mix Concrete	N.C.	N.C.	001	S.L. Sewage Canal	N.C.	•	6.5 - 8.5	•	—	•	•	M
UT-075-0YB-2-000209	Union Pacific Railroad	Transportation of Commodities	7/01/76	5/31/73	001	Storm Sewer	0.002	•		•	—	•	•	•
					002	S.L. Sewage Canal	0.5	M	M	130.0	M	M	•	•
					003	S.L. Sewage Canal	Discharge Only When Flow in Grit Basin is More Than 600 CFM							•
					004	S.L. Sewage Canal	N.C.	•	6.5 - 8.5	•	—	•	•	•
				1/01/74	00?	S.L. Sewage Canal	N.C.	•	6.5 - 8.5	30	M	5000	•	•
	D. & R.G.W.R.R. Co.	Transportation of Commodities	N.C.	1/01/74	001	Jordan River	N.C.	•	6.5 - 8.5	30 25	—	5000	•	•
	IML Freight, Inc.	Trucking	9/30/78	10/05/73	—	Jordan River	N.D.	—	—	—	—	—	—	—
	Wasatch Chemical, Division of Ethyl Industries	Chemical Manufacturing	9/30/78	10/05/73	--	Jordan River	N.D.	—	—	—	—	—	—	—
	Clark Tank Lines	Trucking	12/31/75	3/18/74	001	Storm Sewer	M	•	6.5 - 8.5	•	—	•	•	•
				7/01/74	001	Storm Sewer	M	•	6.5 - 8.5	•	—	•	•	•
	Seven up Bottling Co.	Soft Drink Bot.'ing	9/30/76	N.C.	001	Jordan River	10 gpd	•	6.5 - 8.5	•	—	•	•	•
				1/01/74	001	Jordan River	10 gpd	•	6.5 - 8.5	25	—	•	•	•
UT-075-0YB-2-000082	Utah Power and Light Co. Gadsby Steam Plant	Power Generation	1/01/76	8/24/73	001	Jordan River	0.675	90	6.5 - 8.5	35 25	—	•	•	•
					002	Abatement Canal	0.0287	95	6.5 - 9.0	•	—	•	•	•
					003	Jordan River	0.0016	•	6.5 - 8.5	•	—	•	•	•
					004	Abatement Canal	0.288	95	6.5 - 9.0	•	—	•	•	•
					005	Abatement Canal	0.288	95	6.5 - 9.0	•	—	•	•	•
					006	Abatement Canal	0.0075	95	6.5 - 8.5	•	—	•	•	•
				7/01/77	001	Jordan River	M	•	6.5 - 8.5	•	—	•	•	•
					003	Jordan River	M	90	6.5 - 9.0	•	—	•	•	•
					002, 004, 005, 006	Abatement Canal	M	•	6.5 - 8.5	•	—	•	•	•

Key
• = Discharge must meet Utah State Water Quality Standards.
— = Discharge must meet U. S. Environmental Protection Agency Limitations.
NC = Value Not Given.
ND = No Discharge Allowed.
M = Monitoring required of permittee.

TABLE 15A
Part 2b

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Suspended Solids (mg/l)	Total Dissolved Solids (mg/l)	Oil & Grease (mg/l)	Dissolved Oxygen - D O (mg/l)	Chloride (Cl) (mg/l)	Residual Chlorine (Cl^{-}) (mg/l)	Fluoride (F) (mg/l)	Nitrate (NO_3) Nitrite (NO_2) (mg/l)	Phosphate (PO_4) (mg/l)	Sulphate (SO_4) (mg/l)	Sulfide (H_2S) (mg/l)	Phenol (Carbolic) (mg/l)
UT-0000051	Kennecott Copper Corp.	001	753	M	0.5	•	•	—	2.2	•	—	•	1.0	1050
		002	152	M	0.1	•	•	—	4.1	•	—	•	1.0	1106
		003	74	M	1.2	•	•	—	1.2	•	—	•	1.0	588
		004	450	M	1.2	•	•	—	1.2	•	—	•	1.0	1260
		005	30	M	1.0	•	•	—	47	•	—	•	4.25	2150
		002	30	M	•	•	•	—	•	•	—	•	—	•
		001,003,004,005	—	—	—	—	—	—	—	—	—	—	—	—
		006	25	M	10	•	—	—	M	•	—	—	1.0	0.1
		002	30	•	•	•	•	—	•	•	—	•	—	0.1
		006	25	M	10	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000200	Concrete Products Div. of Gibbons and Reed Company	001	•	•	10	•	•	—	•	•	—	•	—	•
		002	30	•	•	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000227	Kay Industries,Inc.	001	30	•	10	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000260	Utah Sand and Gravel	001	30	•	10	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000300	Union Pacific Railroad	001	•	•	•	•	•	—	•	•	—	•	—	•
		002	105	M	90	•	•	—	•	•	—	•	—	M
		003	•	•	•	•	•	—	•	•	—	•	—	•
		004	•	•	•	•	•	—	•	•	—	•	—	•
		002	30	•	10	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000100	D.&R.G.W.RR. Co.	[illegible]	30	•	10	•	•	—	•	•	—	•	—	•
UT-0000744	IML Freight, Inc.	—	—	—	—	—	—	—	—	—	—	—	—	—
UT-0000205	Hunstch Chemical Division Etrade Industries	—	—	—	—	—	—	—	—	—	—	—	—	—
UT-0022390	Clark Yuak Lines	001	•	•	M	•	•	—	•	•	—	•	—	•
		001	•	•	10	•	•	—	•	•	—	•	—	•
UT-0000752	Seven-Up Bottling Co.	002	45	•	10	•	•	—	•	•	—	•	—	•
		002	45	•	10	•	•	—	•	•	—	•	—	•
UT-075-0YB-2-000082	Utah Power and Light Co. Gadsby Plant	001	M	M	—	•	•	0.1	•	•	—	•	—	M
		002	M	M	—	•	•	0.1	•	•	—	•	—	M
		003	M	M	10	•	•	—	•	•	—	•	—	M
		004	M	M	—	•	•	0.1	•	•	—	•	—	M
		005	M	M	—	•	•	0.1	•	•	—	•	—	M
		006	M	M	—	•	•	0.1	•	•	—	•	—	M
		001	30	M	—	•	•	—	•	•	—	•	—	0.005
		003	30	M	—	•	•	—	•	•	—	•	—	—
		1,2,004,005,006	30	M	—	•	•	—	•	•	—	•	—	—

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TABLE 15A
Part 3c

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Aluminum (Al) (mg/l)	Arsenic (As) (mg/l)	Barium (Ba) (mg/l)	Boron (B) (mg/l)	Cadmium (Cd) (mg/l)	Total Chromium (Cr) (mg/l)	Chromium (Cr^6) (mg/l)	Copper (Cu) (mg/l)	Cyanide (Cn) (mg/l)	Iron (Fe) (mg/l)	Lead (Pb) (mg/l)
Ut-0000051	Kennecott Copper Corp.	001	M	200	•	—	0.054	•	•	140	5.2	0.320	0.125
		002	M	35	•	—	0.060	•	•	50	0.64	0.140	0.120
		003	M	90	•	—	0.074	•	•	1980	1.8	0.250	0.411
		004	M	3650	•	—	0.020	•	•	1250	1.0	0.330	0.080
		005	M	42750	•	—	1.690	•	•	7860	2.4	11.30	0.25
		002	•	0.3	•	—	•	•	•	0.2	•	0.3	•
		—	—	—	—	—	—	—	—	—	—	—	—
		006	M	M	•	—	M	•	•	0.75	M	0.3	0.01
		002	•	0.3	•	—	•	•	•	0.2	0.01	0.3	•
		006	•	•	•	—	•	•	•	0.75	0.01	0.3	0.01
Ut-075-0YR-2-000289	Concrete Products Division of Gibbons & Reed Co.	001	•	•	•	—	•	•	•	•	•	•	•
		001	•	•	•	—	•	•	•	•	•	•	•
Ut-075-0YR-2-000227	Kay Industries, Inc.	001	•	•	•	—	•	•	•	•	•	•	•
Ut-075-0YR-2-000260	Utah Sand & Gravel	001	•	•	•	—	•	•	•	•	•	•	•
Ut-075-0YR-2-000209	Union Pacific Railroad	002	M	•	•	M	•	•	•	•	•	M	•
		003	•	•	•	—	•	•	•	•	•	•	•
		004	•	•	•	M	•	•	•	•	•	M	•
		007	M	•	•	—	•	0.01	•	•	0.01	•	•
Ut-075-0YR-2-000184	D. & R. G. W. R. R. Co.	001	•	•	•	—	—	—	—	—	—	—	—
Ut-0000744	IML Freight, Inc.	—	—	—	—	—	—	—	—	—	—	—	—
Ut-0000205	Wasatch Chemical, Division Ireade Industries	—	—	—	—	—	—	—	—	•	•	•	•
Ut-0023396	Clark Tank Lines	001	•	•	•	—	•	•	•	•	•	•	•
		002	•	•	•	—	•	•	•	•	•	•	•
Ut-0000752	Seven-Up Bottling Co.	001	•	•	•	—	•	•	•	•	•	•	•
		001	•	•	•	—	•	•	•	•	•	•	•
Ut-075-0YR-2-000082	Utah Power & Light Co. Gadsby Plant	002	•	•	•	—	•	•	•	1.0	•	1.0	•
		003	•	•	•	—	•	•	•	•	•	•	•
		—	—	—	—	—	—	—	—	—	—	—	—
		004	•	•	•	—	•	•	•	1.0	•	1.0	•
		005	•	•	•	—	•	•	•	1.0	•	1.0	•
		006	•	•	•	—	•	•	•	1.0	•	1.0	•
		001	•	•	•	—	•	•	•	•	•	•	•
		003	•	•	•	—	•	•	•	•	•	•	•
		002, 004	•	•	•	—	•	•	•	•	•	•	•
		005, 006											

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M = Monitoring Required of Permittee.

TABLE 15A
Part 2d
SUMMARY OF LIMITATIONS
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Manganese (Mn) (mg/l)	Mercury (Hg) (mg/l)	Molybdenum (Mo) (mg/l)	Nickel (Ni) (mg/l)	Selenium (Se) (mg/l)	Silver (Ag) (mg/l)	Zinc (Zn) (mg/l)	Ammonia Nitrogen (NH_3-N) (mg/l)
UT-0000051	Kennecott Copper Corp.	001	0.170	---	2.690	---	0.065	3.0	*	N
		002	0.090	---	0.800	---	0.047	0.030	*	N
		003	1.120		2.330	---	0.085	0.024	*	N
		004	0.060	---	0.130	---	1.100	0.020	*	N
		005	0.170	---	4.485	---	1.000	0.180	*	N
		002	0.1	---	*	---	*	*	*	---
		---	---	---	---	---	---	---	---	---
		006	0.1	---	N	---	N	0.05	*	N
		002	0.1	---	---	---	*	*	*	---
		006	0.1	---	---	---	*	0.05	*	N
UT-075-0YR-2-000289	Concrete Products Division of Gibbons and Reed Co.	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-075-0YR-2-000227	Kay Industries, Inc.	001	*	---	---	---	*	*	*	---
UT-075-0YR-2-000260	Utah Sand and Gravel	001	*	---	---	---	*	*	*	---
UT-075-0YR-2-000209	Union Pacific Railroad	001	*	---	---	---	*	*	*	---
		002	*	---	---	---	*	*	*	N
		003	*	---	---	---	*	*	*	---
		004	*	---	---	---	*	*	*	---
		002	*	---	---	---	*	*	*	N
UT-075-0YR-2-000108	D. & R.G.W.RR. Co.	001	*	---	---	---	*	*	*	---
UT-0000744	IMC Freight, Inc. Wasatch Chemical Division	---	---	---	---	---	---	---	---	---
UT-0000205	Etrada Industries	---	---	---	---	---	---	---	---	---
UT-0022390	Clark Tank Lines	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0000752	Seven-Up Bottling Company	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-075-0YR-2-000082	Utah Power and Light Company Gadsby Plant	001	*	---	---	---	*	*	*	---
		002	*	---	---	---	*	*	*	1.0
		003	*	---	---	---	*	*	*	---
		004	*	---	---	---	*	*	*	1.0
		005	*	---	---	---	*	*	*	1.0
		006	*	---	---	---	*	*	*	1.0
		001	*	---	---	---	*	*	*	N
		001	*	---	---	---	*	*	*	---
		002,004 005,006	*	---	---	---	*	*	*	N

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TABLE 15A
Part 3a

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Product or Process	Permit Expiration Date	Effective Date	Discharge Outfall No.	Receiving Body of Water	Discharge Rate - MGD	Temp °F	pH Units	BOD_5 (mg/l)	COD (mg/l)	Coliform (MPN/100 ml)	Fecal Coliform (MPN/100 ml)	Turbidity (JTU)
UT-075-0Y8-2-000081	UP&L Jordan Steam Plant	Power Generation	1/01/76	8/24/73	001	Jordan River	55	80	*	*	--	*	*	*
					002	Jordan River	0.005	90	*	*	--	*	*	*
					003	Jordan River	600 gpd	*	M	*	--	*	*	*
				9/30/74	003	Jordan River	600 gpd	90	6.5 - 9.0	*	--	*	*	*
UT-075-0Y8-2-000079	UP&L Hale Steam Plant	Power Generation	1/01/76	8/24/73	001	Provo River	28	90	6.5 - 8.5	*	--	*	*	*
					002	Provo Bench Canal	0.0055	90	6.5 - 8.5	*	--	*	*	*
					003	Provo River	0.020	90	6.5 - 8.5	*	--	*	*	*
UT-0000671	Salt Lake City Corp. Dept. of Water Supply & waterworks City Creek Purification Plant	Water Purification	9/30/76	7/01/74	001	City Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
					002	City Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
					003	City Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
UT-0000680	SLC Corp. Dept. U.S.&W.W. Big Cottonwood Purif. Plant	Water Purification	9/30/76	N.G.	001	Big Cottonwood Creek	0.15	*	6.5 - 9.0	*	--	*	*	*
UT-0000698	S.L.C. Corp. Parleys Canyon Purification Plant	Water Purification	9/30/76	N.G.	002	Parleys Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
					003	Parleys Creek	0.15	*	6.5 - 9.0	*	--	*	*	*
					004	Parleys Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
					005	Parleys Creek	N.G.	*	6.5 - 9.0	*	--	*	*	*
UT-0022179	Draper Irrigation Co.		6/30/78	N.G.	001	Big Willow Creek	0.025	*	6.5 - 9.0	*	--	*	*	*
				7/01/77	001	Big Willow Creek	0.025	*	*	*	--	*	*	*
UT-0023055	Fossil Egg Farm	Poultry Feedlot	6/30/78	N.G.	--	Irrigation Ditch	N.G.	*	*	*	--	*	*	*
UT-0020826	South Salt Lake City	Sewage Treatment	1/01/76	12/28/73	001	Jordan River	4.55	M	6.5 - 8.5	25 45	--	5000	M	*
UT-0021725	Salt Lake City Corp.	Sewage Treatment	6/01/76	8/23/74	001	S.L. Drainage Canal	36	M	6.5 - 9.0	30 45	--	5000	400 800	*
				7/01/77	001	S.L. Drainage Canal	36	*	6.5 - 9.0	25 45	--	2000	200 400	*
UT-0022241	S.L.C. Suburban San. Dist.	Sewage Treatment	9/30/76	N.G.	001	Jordan River	N.G.	M	6.5 - 9.0	30 45	--	5000	M	*
UT-0021822	C.U.I.D.	Sewage Treatment	1/07/77	N.G.	001	Jordan River	7.3	M	6.5 - 9.0	15 55	--	4000	200 400	*
				7/01/77	001	Jordan River	7.3	*	6.5 - 9.0	25 45	--	2000	*	*
UT-0021440	Magna W. & S.I.D.	Sewage Treatment	7/01/76	3/05/74	001	Kersey Creek	N.G.	*	6.5 - 9.0	25 45	--	15000	6000	*
				7/01/77	001	Kersey Creek	M	*	6.5 - 9.0	25 45	--	5000	200 400	*
UT-0021709	S.L. County, Cottonwood	Sewage Treatment	1/01/76	N.G.	001	Big Cottonwood Creek	N.G.	M	6.5 - 9.0	15 55	--	5000	1500	*
				7/01/77	001	Big Cottonwood Creek	M	*	6.5 - 9.0	25 45	--	2000	200 400	*
UT-0020281	Midvale City Corp.	Sewage Treatment	9/30/76	N.G.	001	Jordan River	N.G.	M	6.5 - 9.0	60 80	--	25000	M	*
				7/01/77	001	Jordan River	M	*	6.5 - 9.0	25 45	--	2000	200 400	*
UT-0022357	Sandy City Corp.	Sewage Treatment	4/01/76	N.G.	001	Jordan River	2.0	M	6.5 - 8.5	M	--	5000	*	*
UT-0022268	Lark Sewer & Water Corp.	Sewage Treatment	12/31/78	N.G.	001	Keystone Gulch	N.D.	--	--	--	--	--	--	--
N.G.	Camp Williams	Sewage Treatment	N.G.	7/01/77	001	Jordan River	0.1275	*	6.5 - 8.5	25 45	--	5000	200 400	*
UT-0021300	General Refractories Co.	Refractory Brick	3/31/79	4/10/74	001	Irrigation Ditch	0.005	M	6.0 - 9.0	*	--	*	*	*
UT-0000612	Pacific States Cast Iron Pipe Co.	Cast Iron Pipe	7/01/76	3/25/74	001	Spring Creek	0.35	M	6.5 - 9.0	25	M	*	*	*
					002	Spring Creek	M	M	6.5 - 9.0	*	--	*	*	*
					003	Spring Creek	M	M	6.5 - 9.0	*	--	*	*	*

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TABLE 15A
Part 3b

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Suspended Solids (mg/l)	Total Dissolved Solids (mg/l)	Oil & Grease (mg/l)	Dissolved Oxygen - D O (mg/l)	Chloride (Cl) (mg/l)	Residual Chlorine (Cl^{-}) (mg/l)	Fluoride (F) (mg/l)	Nitrate (NO_3) Nitrate (NO_2) (mg/l)	Phosphate (PO_4) (mg/l)	Sulfate (SO_4) (mg/l)	Sulfide (H_2S) (mg/l)	Phenol (C_6H_5OH) (mg/l)
Ut-075-0YE-2-000081	Utah Power & Light Jordan Steam Plant	001	•	•	•	•	•	0.1	•	•	---	•	---	•
		002	•	•	•	•	•	M	•	•	---	•	---	•
		003	30	•	•	•	•	---	•	•	---	•	---	•
		003	•	•	•	•	•	---	•	•	---	•	---	•
Ut-075-0YE-2-000079	Utah Power & Light Hale Steam Plant	001	•	•	•	•	•	---	•	•	---	•	---	•
		002	M	•	•	•	•	---	•	•	---	•	---	•
		003	30	M	•	•	•	---	•	•	---	•	---	•
Ut-0000671	Salt Lake City Corporation Dept. of Water Supply and Water Works, City Creek Purification Plant	001	30	•	•	•	•	0.5	•	•	---	•	---	•
		002	30	•	•	•	•	0.5	•	•	---	•	---	•
		003	30	•	•	•	•	0.5	•	•	---	•	---	•
Ut-0000680	Salt Lake City Corporation Dept. of Water Supply and Water Works, Big Cottonwood Purification Plant	001	30	•	•	•	•	0.5	•	•	---	•	---	•
Ut-0000698	Salt Lake City Corporation Parley's Canyon Purification Plant	002	30	•	•	•	•	0.5	•	•	---	•	---	•
		003	30	•	•	•	•	0.5	•	•	---	•	---	•
		004	30	•	•	•	•	0.5	•	•	---	•	---	•
		005	30	•	•	•	•	0.5	•	•	---	•	---	•
Ut-0022179	Draper Irrigation Company	001	30	•	•	•	•	0.5	•	•	---	•	---	•
		001	15	•	•	•	•	---	•	•	---	•	---	•
Ut-0022055	Fassio Egg Farm	---	4	•	•	•	•	---	•	•	---	•	---	•
Ut-0020876	South Salt Lake City	001	30-45	•	M	•	•	0.8	•	•	---	•	---	•
Ut-0021725	Salt Lake City Corporation	051	40-55	•	10	•	•	M	•	•	---	•	---	•
		001	25-45	•	•	•	•	---	•	•	---	•	---	•
Ut-0022241	Salt Lake City Suburban Sanitary District	001	25-45	•	10	M	•	M	•	•	---	•	---	•
Ut-0021822	Granger-Hunter Improvement Dist.	001	25-45	•	10	M	•	M	•	•	---	•	---	•
		001	---	•	•	•	•	---	•	•	---	•	---	•
Ut-0021440	Magna Water and Sewer Improvement District	001	30-45	•	•	•	•	2.0	•	•	---	•	---	•
		001	---	•	•	•	•	0.5	•	•	---	•	---	•
Ut-0021709	Salt Lake County, Cottonwood	001	25-45	•	M	•	•	1.0	•	•	---	•	---	•
		001	---	•	•	•	•	0.5	•	-	---	•	---	•
Ut-0020281	Midvale City Corporation	001	25-45	•	M	M	•	M	•	•	---	•	---	•
		001	---	•	•	•	•	---	•	•	---	•	---	•
Ut-0022357	Sandy City Corporation	001	30-45	•	10	•	•	0.5	•	•	---	•	---	•
Ut-0022268	Lark Sewer & Water Corporation	---	---	---	---	---	---	---	---	---	---	•	---	•
W/G	Camp Williams	001	30-45	•	•	•	•	0.5	•	•	---	•	---	•
Ut-0021300	General Refractories Company	001	---	•	•	•	•	---	•	•	---	•	---	0.1
Ut-0000612	Pacific State Cast Iron Pipe Co.	001	20	•	10	•	•	---	•	•	---	•	---	•
		002	---	•	•	•	•	---	•	•	---	•	---	•
		003	---	•	•	•	•	---	•	•	---	•	---	•

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TABLE 15A
Part 3c

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Aluminum (Al) (mg/l)	Arsenic (As) (mg/l)	Barium (Ba) (mg/l)	Boron (Ba) (mg/l)	Cadmium (Cd) (mg/l)	Total Chromium (Cr) (mg/l)	Chromium (Cr^{6}) (mg/l)	Copper (Cu) (mg/l)	Cyanide (Cn) (mg/l)	Iron (Fe) (mg/l)	Lead (Pb) (mg/l)
Ut-075-0YB-2-000081	Utah Power & Light Jordan Steam Plant	001	•	•	•	—	•	•	•	•	•	•	•
		002	•	•	•	—	•	•	•	•	•	•	•
		003	•	•	•	—	•	•	•	•	•	•	•
		005	•	•	•	—	o	•	•	•	•	•	•
Ut-075-0YB-2-000079	Utah Power & Light Hale Steam Plant	001	•	•	•	—	•	•	•	•	•	•	•
		002	•	•	•	—	•	•	•	•	•	•	•
		003	•	•	•	—	•	•	•	•	•	•	•
Ut-0000671	Salt Lake City Corp. Department of Water Supply and Water Works, City Creek Purification Plant	001	1.0	•	•	—	•	•	•	•	•	•	•
		002	1.0	•	•	—	•	•	•	•	•	•	•
		003	1.0										
Ut-0000680	Salt Lake City Corp. Department of Water Supply and Water Works, Big Cottonwood Purification Plant	001	1.0	•	•	—	•	•	•	•	•	•	•
Ut-0000698	Salt Lake City Corp. Parley's Canyon Purification Plant	001	1.0	•	•	—	•	•	•	•	•	•	•
		003	1.0	•	•	—	•	•	•	•	•	•	•
		004	1.0	•	•	—	•	•	•	•	•	•	•
		005	1.0	•	•	—	•	•	•	•	•	•	•
Ut-0022179	Draper Irrigation Company	001	1.0	•	•	—	•	•	•	•	•	•	•
		001	•	•	•	—	•	•	•	•	•	•	•
Ut-0022055	Fuzzie Egg Farm	—	•	•	•	—	•	•	•	•	•	•	•
Ut-0020826	South Salt Lake City	001	•	•	•	—	•	•	•	•	•	•	•
Ut-0021725	Salt Lake City Corp.	001	•	•	•	—	•	•	•	•	•	•	•
Ut-0022241	Salt Lake City Suburban Sanitary District	001	•	•	•	—	•	•	•	•	•	•	•
Ut-0021822	Granger-Hunter Improvement District	001	•	•	•	—	•	•	•	•	•	•	•
		001	•										
Ut-0021440	Magna Water & Sewer Improvement District	001	•	•	•	—	•	•	•	•	•	•	•
		002	•	•	•	—	•	•	•	•	•	•	•
Ut-0021709	Salt Lake County Cottonwood	001	•	•	•	—	•	•	•	•	•	•	•
		001	•	•	•	—	•	•	•	•	•	•	•
Ut-0020141	Midvale City Corporation	001	•	•	•	—	•	•	•	•	•	•	•
		001	•	•	•	—	•	•	•	•	•	•	•
Ut-0022357	Sandy City Corporation	001	•	•	•	—	—	—	—	—	—	—	—
Ut-0022368	Lark Sewer & Water Corporation	—	—	—	—	—	•	•	•	•	•	•	•
N/C	Camp Williams	001	•	•	•	—	•	•	•	•	•	•	•
Ut-0021300	General Refractories Company	001	•	•	•	—	•	•	•	•	•	•	•
Ut-0000612	Pacific States Cast Iron Pipe Co.	001	•	•	•	—	•	•	•	•	•	•	•
		002	•	•	•	—	•	•	•	•	•	•	•
		003	•	•	•	—	•	•	•	•	•	•	•

Key

• = Discharge must meet Utah State Water Quality Standards

— = Discharge must meet U.S. Environmental Protection Agency Limitation

NC = Value Not Given

ND = No Discharge Allowed

M = Monitoring Required of Permittee

TABLE 15d
Part 3d

SUMMARY OF LIMITATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Manganese (Mn) (mg/l)	Mercury (Hg) (mg/l)	Molybdenum (Mo) (mg/l)	Nickel (Ni) (mg/l)	Selenium (Se) (mg/l)	Silver (Ag) (mg/l)	Zinc (Zn) (mg/l)	Ammonia Nitrogen (NH_3-N) (mg/l)
UT-075-0YS-I-0000381	Utah Power & Light Jordan Steam Plant	001	•	—	—	—	•	•	•	—
		002	•	—	—	—	•	•	•	—
		003	•	—	—	—	•	•	•	—
		003	•	—	—	—	•			
UT-075-0YS-I-0000479	Utah Power & Light Gale Steam Plant	001	•	—	—	—	•	•	•	—
		002	•	—	—	—	•	•	•	—
		003	•	—	—	—	•	•	•	—
UT-0000671	Salt Lake City Corp. Dept. of Water Supply and Waterworks City Creek Purification Plant	001	•	—	—	—	•	•	•	—
		002	•	—	—	—	•	•	•	—
		003	•	—	—	—				
UT-0000680	S.L.C.Corp. Dept. of Water Supply & W.W. Big Cottonwood Purification Plant	001	•	—	—	—	•	•	•	—
UT-0000698	Salt Lake City Corp. Parley's Canyon Purification Plant	002	•	—	—	—	•	•	•	—
		003	•	—	—	—	•	•	•	—
		004	•	—	—	—	•	•	•	—
		005	•	—	—	—	•	•	•	—
UT-0071179	Draper Irrigation Company	001	•	—	—	—	•	•	•	—
		001	•	—	—	—				
UT-0023055	Fausto Egg Farm	---	•	—	—	—	•	•	•	—
UT-0020826	South Salt Lake City	001	•	—	—	—	•	•	•	—
UT-0021725	Salt Lake City Corp.	001	•	—	—	—	•	•	•	—
		001	•	—	—	—				
UT-0022241	Salt Lake City Suburban Sanitary District	001	•	—	—	—	•	•	•	■
										■
UT-0021822	Granger-Hunter Improvement Dist.	001	•	—	—	—	•	•	•	—
		001	•	—	—	—				
UT-0021440	Magna Water & Sewer Improvement Dist.	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	■
UT-0021709	Salt Lake County Cottonwood	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	•	•	■
UT-0070181	Midvale City Corp.	001	•	—	—	—	•	•	•	—
		001	•	—	—	—	•	—	—	—
UT-0022357	Sandy City Corp.	001	•	—	—	—	•	•	—	—
UT-0022268	Lark Sewer & Water Corp.	---	•	—	—	—	•	•	•	—
H/C	Camp Williams	001	•	—	—	—	•	•	•	■
UT-0021300	General Refractories Company	001	•	—	—	—	•	•	•	—
UT-0000612	Pacific States Cast Iron Pipe Co.	001	•	—	—	—	•	•	•	—
		002	•							
		003	•	—	—	—	•			

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• = Discharge must meet Utah State Water Quality Standards.
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NG = Value Not Given.
ND = No Discharge Allowed.
M = Monitoring required in permittee.

TABLE 15A
Part 4A

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS

FOR THE

UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Product or Process	Expiration Date	Effective Date	Discharge Outfall No.	Receiving Body Of Water	Discharge Rate - MGD	Temp. °F	pH Units	BOD (mg/l)	COD (mg/l)	Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Turbidity (JTU)
UT-0000361	U. S. Steel Corp. Geneva Works	Steel Manufacturing	6/30/79	11/08/74	001	Utah Lake	30.00	M	6.5 - 8.5	M	M	*	*	*
UT-0000370	Reilly Tar and Chem. Co.	Coal Tar Refining	7/01/76	7/27/73	002	Lindon Hollow	0.04	*	6.5 - 8.5	25	*	4000	200/400	*
					001	Spring Creek	0.50	90	6.5 - 8.5	M	M	*	*	*
UT-0021687	John Kuhni Sons, Inc.	Animal Tallow	9/30/78	9/01/73	001	Spring Creek	0.50	*	*	*	*	*	*	*
				3/24/76	001	Spring Creek	N.G.	*	*	*	*	*	*	*
UT-075-0YE-2-000191	Utah Div. of Wildlife Resources Springville State Hatchery	Trout Hatchery	7/01/75	4/01/74	001	Spring Creek	N.D.	—	—	—	—	—	—	—
				8/10/73	001	Spring Creek	6.79	*	*	5.65	*	*	*	*
				7/01/77	001	Spring Creek	6.79	*	*	1.15	*	*	*	*
UT-0020150	Lehi Corp.	Sewage Treatment	12/31/76	11/23/73	001	Ditch to Utah Lake	0.50	*	6.5 - 8.5	50	*	M	M	*
UT-0021105	American Fork City Corp.	Sewage Treatment	9/30/76	7/01/77	001	Ditch to Utah Lake	0.50	*	6.5 - 8.5	25 45	*	5000	200/400	*
				11/21/73	001	Utah Lake	1.90	*	6.5 - 8.5	50	*	M	M	*
UT-0020206	City of Pleasant Grove	Sewage Treatment	7/01/76	7/01/77	001	Utah Lake	1.90	*	6.5 - 8.5	25 45	*	5000	200/400	*
				8/24/73	001	Lindon Hollow Drain	1.00	*	6.5 - 8.5	35 70	*	M	M	*
UT-0020915	Orem City Corp.	Sewage Treatment	1/01/76	7/01/77	001	Lindon Hollow Drain	1.00	*	6.5 - 8.5	25 45	*	5000	200/400	*
				7/19/76	001	Unnamed Stream	5.60	*	6.5 - 9.0	30 45	*	2000	500/1000	*
UT-0021113	Springdell Utah	Sewage Treatment	1/01/76	7/01/77	001	Unnamed Stream	5.60	*	6.5 - 9.0	25 45	*	*	200/400	*
				W.C.	001	Provo River	0.01	*	M	M	*	*	M	*
UT-0021717	Provo City Corp.	Sewage Treatment	12/31/76	7/01/77	001	Provo River	0.01	*	6.5 - 8.5	25 45	*	5000	200/400	*
				9/20/74	001	Mill/Race	16.70	M	6.5 - 9.0	35 50	*	*	1000	*
UT-0020834	City of Springville	Sewage Treatment	1/01/76	7/01/77	001	Mill/Race	16.70	M	6.5 - 9.0	25 45	*	2000	200/400	*
				8/24/73	001	Spring Creek	2.20	*	6.5 - 8.5	25 45	*	M/L	200/400	*
UT-0020109	City of Spanish Fork	Sewage Treatment	7/01/76	7/01/77	001	Spring Creek	2.20	*	6.5 - 8.5	*	*	5000	200/400	*
				8/24/73	001	Dry Creek	1.80	*	6.5 - 8.5	25 45	*	—	—	*
UT-0020249	Salem	Sewage Treatment	1/01/76	7/01/77	001	Dry Creek	1.80	*	6.5 - 8.5	*	*	5000	200/400	*
				W.C.	001	Beer Creek	0.20	*	6.5 - 8.5	25 45	*	—	—	*
UT-0020427	City of Payson	Sewage Treatment	7/01/76	7/01/77	001	Beer Creek	0.20	*	6.5 - 8.5	*	*	5000	200/400	*
				8/24/73	001	Beer Creek	1.25	*	6.5 - 8.5	25 45	*	M	M	*
UT-0020818	Town of Nephi	Sewage Treatment	7/01/76	7/01/77	001	Beer Creek	1.25	*	6.5 - 8.5	*	*	5000	200/400	*
				8/24/73	001	Irrigation Ditch	0.30	*	6.5 - 8.5	40	*	10000	*	*
UT-0000418	Utah Div. of Wildlife Resources Midway State Hatchery	Fish Hatchery	7/01/75	7/01/77	001	Irrigation Ditch	0.30	*	6.5 - 8.5	25 45	*	5000	200/400	*
				9/20/73	001	Snake Creek	11.20	*	*	14	*	*	*	*
				7/01/77	001	Snake Creek	11.20	*	*	3	*	*	*	*
UT-075-0YE-000105	Clearview Trout Farm	Fish Hatchery	W.C.	8/10/73	001	Provo River	W.C.	*	*	225 lbs/day	*	*	*	*
				7/01/77	001	Provo River	M	*	*	45 lbs/day	*	*	*	*
UT-0020044	City of Midway	Sewage Treatment	7/01/75	W.C.	001	Provo River	W.C.	*	6.5 - 8.5	25 45	*	5000	200/400	*
				7/01/77	001	Provo River	M	*	*	*	*	*	*	*
UT-0020087	Heber City Corporation	Sewage Treatment	7/01/76	11/21/73	001	Spring Creek	2.30	*	6.5 - 9.0	40	*	M	M	*
				7/01/77	001	Spring Creek	2.30	*	—	25 45	*	5000	200/400	*

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TABLE 15A
Part 4b

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

Permit No.		Discharge Outfall No.	Suspended Solids (mg/l)	Total Dissolved Solids (mg/l)	Oil & Grease (mg/l)	Dissolved Oxygen - D O (mg/l)	Chloride (Cl) (mg/l)	Residual Chlorine (mg/l)	Fluoride (F) (mg/l)	Nitrate (NO_3) Nitrite (NO_2) (mg/l)	Phosphate (PO_4) (mg/l)	Sulfate (SO_4) (mg/l)	Sulfide (H_2S) (mg/l)	Phenol (C_6H_5OH) (mg/l)
Ut-0000361	U.S. Steel Corporation Geneva Works	001	20	M	15	*	M	---	*	M	---	M	---	0.1
		002	25	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0000370	Reilly Tar & Chemical Co.	001	M	M	10	*	*	---	*	*	---	*	---	M
		001	*	*	*	*	*	---	*	*	---	*	---	0.1
Ut-0021687	John Kuhni Sons, Inc.	001	*	*	*	*	*	---	*	*	---	*	---	*
		001	---	---	---	---	---	---	---	---	---	---	---	---
Ut-075-0YR-2-000191	Utah State Division of Wildlife Resources, Springville State Hatchery	001	6.35	*	*	*	*	---	*	*	---	*	---	*
		001	1.32	*	*	*	*	---	*	*	---	*	---	*
Ut-0020150	Lehi City Corporation	001	M	*	*	*	*	8.0	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0021105	American Fork City Corporation	001	50	*	*	*	*	M	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020206	City of Pleasant Grove	001	60-70	*	*	*	*	1.0	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020915	Orem City Corporation	001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
		001	25-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0021113	Springdell Utah	001	M	*	*	*	*	M	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0021717	Provo City Corporation	001	30-45	*	10	*	*	0.8	*	*	---	*	---	*
		001	25-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020834	City of Springville	001	30-45	*	*	*	*	1.0	*	*	---	*	---	*
		002	*	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020109	City of Spanish Fork	001	30-45	*	*	*	*	1.0	*	*	---	*	---	*
		001	*	*	*	*	*	0.5	*	*	---	*	---	*
Ut-002029	Salem	001	*	*	*	*	*	1.0	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020427	City of Payson	001	30-45	*	*	*	*	1.0	*	*	---	*	---	*
		001	*	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020818	Town of Maphi	001	40	*	*	*	*	---	*	*	---	*	---	*
		001	35-45	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0000418	Utah State Division of Wildlife Resources Midway State Hatchery	001	16	*	*	*	*	---	*	*	---	*	---	*
		001	3.2	*	*	*	*	---	*	*	---	*	---	*
Ut-075-0YR-2-000205	Clearview Trout Farm	001	250 lb/day	*	*	*	*	---	*	*	---	*	---	*
		001	50 lb/day	*	*	*	*	---	*	*	---	*	---	*
Ut-0020044	City of Midway	001	30-45	*	*	*	*	M	*	*	---	*	---	*
		001	*	*	*	*	*	0.5	*	*	---	*	---	*
Ut-0020087	Heber City Corporation	001	40	*	*	*	*	M	*	*	---	*	---	*
		001	30-45	*	*	*	*	0.5	*	*	---	*	---	*

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-- = Discharge must meet U.S. Environmental Protection Agency Limitations
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ND = No Discharge Allowed
M = Monitoring Required of Permittee

TABLE 15A
Part 4c

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE-JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Aluminum (Al) (mg/l)	Arsenic (As) (mg/l)	Barium (Ba) (mg/l)	Boron (B) (mg/l)	Cadmium (Cd) (mg/l)	Total Chromium (Cr) (mg/l)	Chromium (Cr^{+6}) (mg/l)	Copper (C_u) (mg/l)	Cyanide (Cn) (mg/l)	Iron (Fe) (mg/l)	Lead (Pb) (mg/l)
Ut-0000361	U.S. Steel Corporation Geneva Works	001	*	*	*	---	*	*	*	*	0.2	M	*
		002	*	*	*	---	*	*	*	*	*	*	*
Ut-0000370	Reilly Tar & Chemical Co.	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0021687	John Kuhni Sons, Inc.	001	---	*	*	---	*	*	*	---	---	---	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-075-OYR-2-000191	Utah State Division of Wildlife Resources Springville State Hatchery	001	*							*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020150	Lehi City Corporation	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0021105	American Fork City Corporation	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020206	City of Pleasant Grove	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020915	Orem City Corporation	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0021413	Springdell Utah	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0021717	Provo City Corporation	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020834	City of Springville	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020109	City of Spanish Fork	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020249	Salem	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020427	City of Payson	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020818	Town of Mapki	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
UA-0000418	Utah State Division of Wildlife Resources, Midway State Hatchery	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-075-OYR-2-000205	Clearview Trout Farm	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020044	City of Midway	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*
Ut-0020087	Heber City Corporation	001	*	*	*	---	*	*	*	*	*	*	*
		001	*	*	*	---	*	*	*	*	*	*	*

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TABLE 15A
Part 4d

SUMMARY OF LIMITATIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE PERMITS FOR THE UTAH LAKE - JORDAN RIVER HYDROLOGIC BASINS

Permit No.	Permittee	Discharge Outfall No.	Manganese (Mn) (mg/l)	Mercury (Hg) (mg/l)	Molybdenum (Mo) (mg/l)	Nickel (Ni) (mg/l)	Selenium (Se) (mg/l)	Silver (Ag) (mg/l)	Zinc (Zn) (mg/l)	Ammonia Nitrogen (NH_3-N) (mg/l)
UT-0000361	U. S. Steel Corp. Geneva Works	001	*	0.005	---	---	*	*	*	10
		002	*	---	---	---	*	*	*	---
UT-0000370	Reilly Tar and Chemical Company	001	*	---	---	---	*	*	*	M
		001	*	---	---	---	*	*	*	---
UT-0021687	John Kunel Sons, Inc.	001	*	---	---	---	*	*	*	---
		001	---	---	---	---	---	---	---	---
UT-075-DTR-2-000191	Utah Division of Wildlife Resources	001	*	---	---	---	*	*	*	---
	Springville State Hatchery	001	*	---	---	---	*	*	*	---
				---	---	---				
UT-0020583	Lehi City Corp.	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0021105	American Fork City Corp.	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020206	City of Pleasant Grove	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020915	Orem City Corporation	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0021113	Springdell, Utah	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0021717	Provo City Corporation	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020834	City of Springville	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020109	City of Spanish Fork	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0[illegible]0249	Salem	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020427	City of Payson	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020818	Town of Nephi	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0000418	Utah Division of Wildlife Resources	001	*	---	---	---	*	*	*	---
	Midway State Hatchery	001	*	---	---	---	*	*	*	---
UT-075-DTR-2-000705	Clearview Trout Farm	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020044	City of Midway	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---
UT-0020087	Weber City Corporation	001	*	---	---	---	*	*	*	---
		001	*	---	---	---	*	*	*	---

KEY
* = Discharge must meet Utah State Water Quality Standards.
-- = Discharge must meet U. S. Environmental Protection Agency Limitations.
NG = Value Not Given.
ND = No Discharge Allowed.
M = Monitoring required of permittee.

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TFS 00.45	(D-8-3) 3cbc	331061	Ditch from Fullmer Spring - (Springville) (SPRINGVILLE)
TCS 00.15	(D-8-3) 3abd	331062	Ditch from Clyde Spring (Springville) (SPRINGVILLE)
TOS 00.50	(D-8-3) 2acb	331063	Osler Spring (Springville) (Privately owned and used). (SPRINGVILLE)
TUK 00.60	(D-8-3) 2abc	331081	Konold Spring (Springville) (Check private use). (SPRINGVILLE)
TPS 00.20	(D-8-3) 1ccb	331082	Discharge from Burt Spring - (Springville). (SPRINGVILLE)

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3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUL 00.70	(D-5-2) 22bbd	331083	Grove Creek - above Flood Control holding pond. (OREM)
TBT 01.30	(D-5-2) 23 cbc	331084	Battle Creek - above Wier - below falls. (OREM)
TUG 02.15	(D-9-2) 7bab	331070	Spring Creek (N.W. of Payson) 9600 S. (WEST MOUNTAIN)
TUF 02.10	(D-9-1) 12baa	331069	Creek in Dry Hollow - below Tanner Reservoir. (WEST MOUNTAIN)
TUH 02.50	(D-9-1) 28bbb	331071	Drain above White Lake. (WEST MOUNTAIN)

99 A

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUO 00.01	(D-7-1) 7aaa	331085	IRECO Chemical waste pond (West of Utah Lake.) (LINCOLN POINT)

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3 (C) WATER QUALITY STUDY

UTAH & JUAB COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUR 07.00	(C-10-1) 15aba	331086	Discharge from Goshen Reservoir. (SANTAQUIN)
TUP 07.50	(D-10-1) 8cac	331087	Warm Springs East of Goshen. (SANTAQUIN)
TUP 06.50	(D-10-1) 7cbd	331088	Warm Srpings channel at U.S. Route 6 east of Goshen. (SANTAQUIN)
TUR 10.50	(C-10-1) 26daa	331089	Current Creek at Narrows south of Goshen. (SANTAQUIN)
TUR 13.80	(D-11-1) 7bab	331090	Discharge from Mona Reservoir. (SANTAQUIN)

3 (C) WATER QUALITY STUDY

UTAH & JUAB COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUR 17.70	(D-11-1) 30dcc	331091	Headwaters of Mona Reservoir at State Highway 214. (SANTAQUIN)
TUR 19.60	(D-12-1) 6dcb	331092	Discharge from Burriston Ponds (South of Mona.) (SANTAQUIN)

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3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S. # (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*UUQ 08.30	(D-8-4) 6baa	#90	331535	Hobble Creek near Springville (SPRINGVILLE)
*UUQ 03.90	(D-7-3) 33ddb	#91	331536	Hobble Creek at Springville (SPRINGVILLE)
*UVB 04.60	(D-7-4) 24dbd	#83	331537	Right Fork Hobble Creek at Kolob Campground near Springville (GRANGER MOUNTAIN)
*UUQ 01.15	(D-7-3) 30acc	#92	331538	Hobble Creek at I-80 near Springville (PROVO)
*UVB 01.25	(D-7-4) 34bcd	#84	331539	Right Fork Hobble Creek at Hobble Creek Guard Station near Springville (GRANGER MOUNTAIN)
*UUQ 10.15	(D-7-4) 33cbb	#88	331540	Left Fork Hobble Creek at mouth near Springville (GRANGER MOUNTAIN)

R-6/72

R-7/72* U.S.G.S. Stations R-8/72

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*UUW 00.50	(D-8-3) 13ddc	#94	331541	Maple Creek near Springville (SPRINGVILLE)
*UUW 02.35	(D-7-3) 19dda	#95	331542	Spring Creek at Union Pacific Bridge south of Provo (PROVO)
*UUX 01.25	(D-7-2) 32ddd	#141	331543	Spanish Fork near Lakeshore (PROVO)
*UUF 00.40	(D-7-6) 34cdc	#127	331544	Strawberry Tunnel at West Portal near Thistle (STRAWBERRY RESERVOIR N.W.) (TWO TOM HILL)
*UUE 04.20	(D-8-1) 25aba	#146	331545	Benjamin Slough near Payson (WEST MOUNTAIN)
*UUY 06.30	(D-9-2) 27cdd	#148	331546	Payson (Peteetneet) Creek near Payson (SPANISH FORK)

* U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*UVL 09.20	(D-10-1) 12cdc	#150	331547	Santaquin Creek below powerhouse near Santaquin (SANTAQUIN)
*UUD 11.68	(D-4-2) 18aaa	#1	331522	Dry Creek near Alpine (LEHI)
*UUD 09.65	(D-4-1) 24ddd	#2	331523	Dry Creek at Alpine (LEHI)
*UUT 00.30	(D-4-1) 25bab	#4	331524	Fort Creek near Alpine (LEHI)
*UUM 00.90	(D-5-1) 26dbb	#20	331525	American Fork near mouth, near American Fork (PELICAN POINT)
*UUD 05.20	(D-5-1) 4acb	#6	331526	Dry Creek below diversion near Lehi (LEHI)

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*UUM 14.15	(D-4-3) 7dcd	#14	331527	American Fork below Deer Creek near Mutual Dell (TIMPANOGOS CAVE)
*UUD 02.55	(D-5-1) 17bad	#7	331528	Dry Creek at State Highway 73 at Lehi (LEHI)
*UUM 09.65	(D-4-2) 27bdc	#18	331529	American Fork at Timpanogos Cave Nat'l Monument near American Fork (TIMPANOGOS CAVE)
*UUM 07.30	(D-4-2) 32bac	#19	331530	American Fork near American Fork (TIMPANOGOS CAVE)
*PVO 08.20	(D-6-3) 7ccb	#75	331531	Provo River below diversion at Mouth of canyon near Provo (OREM)
*UUS 01.70	(D-5-1) 16ddd	#21	331532	Spring Creek below Mill Pond near Lehi (LEHI)

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*PVO 04.60	(D-6-2) 36cab	#75	331533	Provo River at U.S. Highway 89-91 at Provo (OREM)
*PVO 02.80	(D-7-2) 3daa	#78	331534	Provo River at Provo (PROVO)
*UUC 00.10	(D-8-5) 27dcd	#129	331548	Sixth Water Creek at Three Forks near Thistle (RAYS VALLEY)
*UVA 00.10	(D-8-5) 27dcd	#130	331549	Cottonwood Canyon at Three Forks near Thistle (RAYS VALLEY)
*UUZ 10.00	(D-8-5) 27dcb	#131	331550	Diamond Fork below Three Forks near Thistle (RAYS VALLEY)
*UUG 00.30	(D-6-2) 6dbc	#20 C	331551	Outflow drain from Steel Plant immediately upstream from cooling ponds (PELICAN POINT)

R-7/72

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
*UUH 00.70	(D-5-1) 27aac	#20A	331552	Unnamed drain at point about ½ mile from Utah Lake and including sewage effluent from American Fork (PELICAN POINT)
*PVO 00.70	(D-7-2) 5dad	#78A	331553	Provo River at mouth at boat harbor near Provo (PROVO)
*UUD 10.00	(D-8-3) 6cdd	#92B	331554	Dry Creek at I-15 near Springville (PROVO)
*UUJ 01.30	(D-7-2) 14bdc	#96A	331555	Big Dry Creek at edge of Provo Bay near Provo (PROVO)
*UUK 00.60	(D-8-2) 8bcc	#141A	331556	Unnamed drain about 1 mile from Utah Lake and about 1½ miles northwest of Spanish Fork near Lake Shore (PROVO)

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R-7/72

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S. (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TVM 07.30	(D-8-3) 19cbc		331150	Mill Race Canal, South of Spanish Fork (SPANISH FORK)
*UVM 01.30	(D-7-3) 18ccc	#96	331562	Mill Race Canal below Provo Sewage Treatment Plant (PROVO)
TVN 09.70	(D-9-2) 21bba		331151	Strawberry High Line Canal South of Payson (SPANISH FORK)
*UUQ 00.60	(D-7-3) 30acc	#92	331563	Hobble Creek at Highway I-15 (PROVO)
TUY 04.40	(D-9-2) 21bad		331152	Peteeneet Creek at narrows near mouth of Payson Canyon (SPANISH FORK)
TVN 02.30	(D-9-1) 34ccb		331153	Irrigation Reservoir East of Genola (SANTAQUIN)
TVB 00.01	(D-7-4) 33cbc		331154	Right Fork Hobble Creek at mouth (GRANGER MOUNTAIN)

* U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TVO 06.70	(D-9-2) 11abd		331155	Salem Lake at diversion (SPANISH FORK)
TVP 04.40	(C-10-2) 14aab		331156	Stream emerging from Tintic Mines S.E. of Eureka (EUREKA)
TUX 05.40	(D-9-2) 11dcd		331157	Salem Canal South of Salem (SPANISH FORK)
*UVI 02.37	(D-5-3) 11cdc	#67	331564	North Fork Provo River at Sundance Ski Resort (ASPEN GROVE)
*UVI 00.65	(D-5-3) 23adc	#68	331565	North Fork Provo River above Wildwood (BRIDAL VEIL FALLS)
*UVR 00.01	(D-3-3) 28dca	#11	331566	Mary Ellen Gulch near Alta (BRIGHTON)
*UUM 18.82	(D-3-3) 27cba	#10	331567	American Fork Creek at Dutchman Guard Station (BRIGHTON)

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TVT 54.55	(C-5-1) 25baa	331158	Jordan River at Utah Lake (SARATOGA SPRINGS)
TVN 04.20	(D-9-1) 26cbb	331159	Strawberry Highline Canal at south tip of West Mountain (WEST MOUNTAIN)
TVL 08.00	(D-10-1) 2dcd	331160	Canal from Summit Creek, near S.W. corner of Santaquin (SANTAQUIN)
TVL 07.00	(D-10-1) 10abb	331161	Irrigation Reservoir, 1½ mi. west of Santaquin (SANTAQUIN)
TVL 10.00	(D-10-1) 13dca	331162	Summit Creek - 0.6 mi. above Powerhouse above diversion structure in Santaquin Canyon (SANTAQUIN)
TVP 02.40	(C-10-1) 18aca	331163	Eureka secondary tailings pond - 1½ mi. w. of Elberta (SANTAQUIN)

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUZ 15.40	(D-8-5) 1bcc		331164	Diamond Fork at Springville crossing. (TWO TOM HILL)
TUZ 13.40	(D-8-5) 11dcd		331165	Diamond Fork at Mineral Springs campground (TWO TOM HILL)
*UUA 00.01	(D-9-4) 1bba	#133	331166	Little Diamond Creek near Thistle (BILLIES MOUNTAIN)
UUF 03.60	(D-7-12) 1aac		331167	Strawberry tunnel at East Portal (STRAWBERRY RESERVOIR N.W.)
*UUZ 00.01	(D-9-4) 17dca	#135	331168	Mouth Diamond Fork near Thistle (SPANISH FORK PEAK)
*UUX 11.50	(D-8-3) 34bbb	#139	331169	Spanish Fork below diversions near mouth of canyon (SPANISH FORK PEAK)

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*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM"	U.S.G.S.# (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
UVC 00.30	(D-9-4) 33bbc	#125	331170	Thistle Creek at U.S. Hwy. 89 at Thistle (THISTLE)
*UVE 00.10	(D-10-6) 24ca	#104	331171	Clear Creek at mouth near Soldier Summit (SOLDIER SUMMIT)
*UVF 16.50	(D-9-6) 24cc	#105	331172	Soldier Creek above Tie Fork near Soldier Summit (SOLDIER SUMMIT)
*UUZ 10.00	(D-8-5) 27dcb	#131	331177	Diamond Fork below Three Forks near Thistle (RAYS VALLEY)

*U.S.G.S. Stations

3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TVS 02.50	(D-8-3) 34baa	331190	Mapleton Lateral at mouth of Spanish Fork Canyon (SPANISH FORK PEAK)
TUI 00.01	(C-5-1) 35ddd	331185	Provo Reservoir Canal(west) at Murdock pumping station (SARATOGA SPRINGS)
UUV 11.80	(C-5-2) 6ddc	331186	West Valley Creek 6 mi. north of Cedar Fort (TICKVILLE SPRINGS)
TUE 03.30	(D-8-1) 24bcc	331191	Benjamin Slough at Highway 147 west of Benjamin (WEST MOUNTAIN)
TVJ 05.00	(D-12-2) 3ac	331192	Salt Creek 2 miles east of Nephi (NEPHI)

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3 (C) WATER QUALITY STUDY

UTAH - COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	U.S.G.S. NO. (1971)	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TVG 19.80	(C-4-1) 26aab		331183	Provo Reservoir Canal (east) at High-way 89-91 (JORDAN NARROWS)
UVH 00.01	(D-5-3) 26dbb	#71	331187	South Fork of Provo River at mouth (BRIDAL VEIL FALLS)

3 (C) WATER QUALITY STUDY

UTAH COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUS 01.20	(D-5-1) 21adb	331214	Spring Creek and East Millpond (PELICAN POINT)
TVW 00.40	(D-6-2) 20cdd	331216	Powell Slough West of Orem (OREM)

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3 (C) WATER QUALITY STUDY

Utah County
Storm Sewer Sampling

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	STATION CODE SERIAL	DESCRIPTION & MAP NAME
US2 01.90	(D-5-1) 23dac	331218	American Fork Cr. at 400 South & 100 East - American Fork (Pelican Point)
US3 00.40	(D-7-2) 12bda	331219	Canal on west side of 500 West Street at 600 South - Provo (Provo)
US4 02.80	(D-7-2) 12dac	331220	Mill race ditch at University Ave., south of Provo (Provo)
US5 00.20	(D-7-3) 7cbc	331221	Unnamed drain, east side of golf course, Provo (Provo)
US6 02.80	(D-7-3) 32add	331222	Hobble Cr. at 400 West - Springville (Springville)

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QUALITY STUDY

Utah County
Storm Sewer Sampling

STATION IDENTITY	COORDINATE "STATE WELL SYSTE	STATION CODE SERIAL	DESCRIPTION & MAP NAME
US7 06.20	(D-7-3) 29aad	331223	Spring Cr. east of Denver and Rio Grande Railroad - Springville (Springville)
US8	(D-8-2) 13dba	331224	Drain at 900 No. & 300 West in Spanish Fork (Spanish Fork)
US9 07.60	(D-7-3)7	331238	Lower Union Canal at 1150 East, 900 South in Provo (Provo)
US10 07.00	(D-7-3)8	331239	Upper Union Canal at 1300 East, 900 South in Provo (Provo)
UUD 02.55	(D-5-1) 17bad	331528	Dry Creek at State Highway 73 , west to Lehi (Lehi)

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3 (C) WATER QUALITY STUDY

Utah County
Storm Sewer Sampling

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	STATION CODE SERIAL	DESCRIPTION & MAP NAME
US11 05.13	(D-9-2) 9bcd	33 1240	Storm drain at 4th North and 450 East in Payson (Spanish Fork)
US12 00.90	(D-9-2) 8cdb	331241	Storm drain at 6th West, north of 1st North in Payson (Spanish Fork)

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QUALITY STUDY
UTAH COUNTY

STATION IDENTITY	COORDINATE "STATE WELL SYSTEM	STATION CODE SERIAL	DESCRIPTION & MAP NAME
TUT 01.80	(D-7-1) 5ccd	331243	Utah Lake immediately off-shore from IRECO Chemical Co. (LINCOLN POINT)

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